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AN ANALYSIS OF SEMIOTIC FACTORS IN CARTOON VISUALS AND THEIR EFFECT
ON CONVEYING MEANING IN SECOND LANGUAGE TEACHING



by
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ABSTRACT

In order to determine some of the factors in conveying meaning with cartoon filmstrip visuals, a random sample of thirty pictures from Voix et Images de France was analyzed into categories of the medium and categories of the content of the intended messages. The dimensions of the content selected for this study were: style, modality, relations of the topic and comment, and the total message. The elements of the medium were analyzed according to the nature of the relationship between the element and its intended meaning, the mode of signifying of the elements of the medium, and the type of code used. The pictures were further analyzed for complexity and use of ideographemes.

In order to elicit responses from the students, the sample of thirty pictures was divided into two sets of fifteen pictures each.

One group of grade seven students interpreted pictures one to fifteen in isolation and pictures fifteen to thirty in context. The mode of presentation was reversed for the other group of students.

It was hypothesized that for pictures in isolation and in context neither the semantic nor the syntactic categories of the message would be associated with a significant difference in response to style, modality, and relations of the messages. It was further hypothesized that neither complexity nor use of ideographemes either in isolation or in context would be related to a difference on the total message. A two-way analysis of variance with repeated measures on one factor was used. The levels of factor A were the syntactic and semantic categories, the levels of complexity and use of ideographemes. The repeated measures were mode of

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presentation. To test the significance of the difference between means, Scheffe's Test was used.

The results indicated that mode of presentation had the same overall effect on the semantic and syntactic categories for style, modality, and relations of the messages, and on the levels of complexity as well as the use of ideographemes and the total message.

The responses to style were not associated with a significant difference between modes of presentation. The responses to modality and to the relations of the message, on the other hand, were influenced by mode of presentation. The pictures in context were associated with a higher level of response.

The semantic categories of the messages were related to a significant difference on the students' responses both in isolation and in context for style, modality, and relations. The level of response was affected by the syntactic categories of elements to express modality. For relations, however, the level of response was not affected by the syntactic categories used to express the content.

The responses to pictures of three levels of complexity differed from one another. The most complex pictures were associated with the lowest level of correct interpretation. Although ideographemic pictures elicited a higher mean response than non-ideographemic pictures, there was no significant difference between the response elicited by either ideographemic or non-ideographemic pictures.

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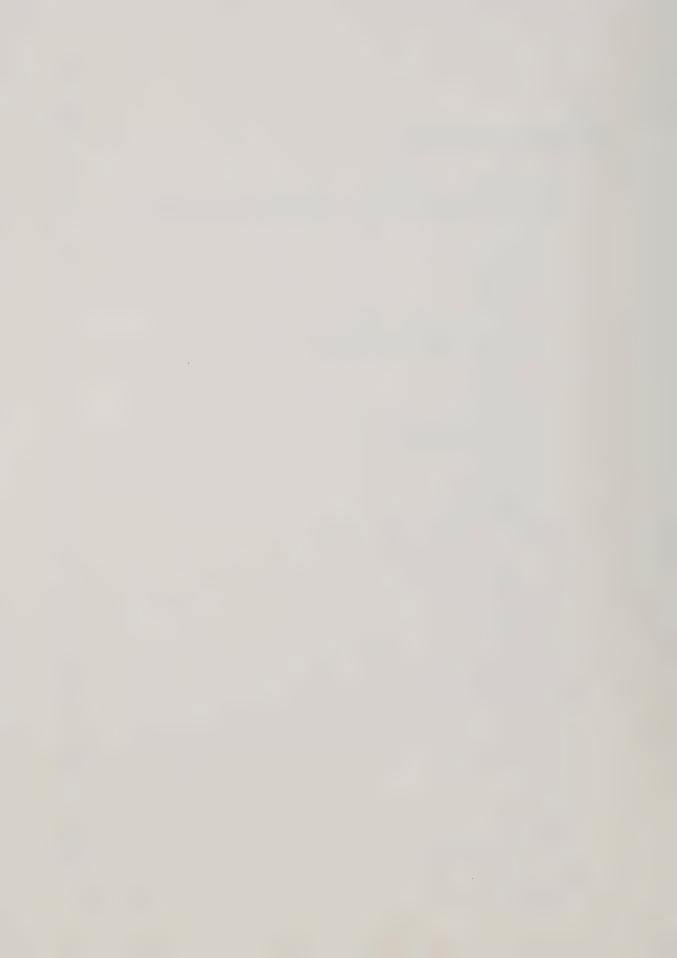


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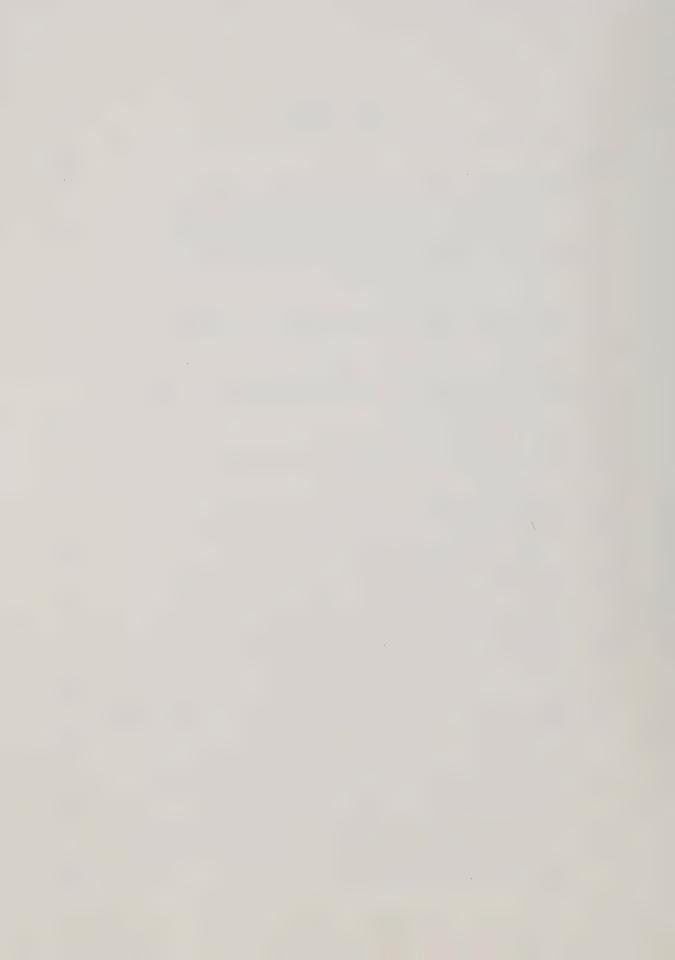


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CHAPTER I

THE PROBLEM

I. BACKGROUND OF THE PROBLEM

The recent advances in psychology and linguistics have made it difficult to establish a comprehensive and adequate theory for second language learning and teaching. Complications arise from the divergent views held with regard to the nature of language and the most appropriate strategies for research in language.

Skinner¹ strongly advocates that inquiries into natural languages should be restricted to verbal behavior, and insists that research into conditions and effects of usage proceed as if nothing were known about the design features of the system. He, therefore, deliberately rejects terms like "idea", "meaning", and "information".

On the other hand, a psychology which is becoming increasingly less behavioristic, such as that of Miller, Galanter and Pribram, 2 shifts the focus of attention from the speech signal as a response to some external situation to a domain of cognitive states.

Linguistics has had a similar evolution. Bloomfield claims

¹B. F. Skinner, Verbal Behavior (New York: Appleton, 1957), p. 2.

²G. A. Miller, E. Galanter, and K. H. Pribram, <u>Plans and the Structure of Behavior</u> (New York: Holt, 1960)

Leonard Bloomfield, Language (New York: Holt and Co., 1945), p. 17.



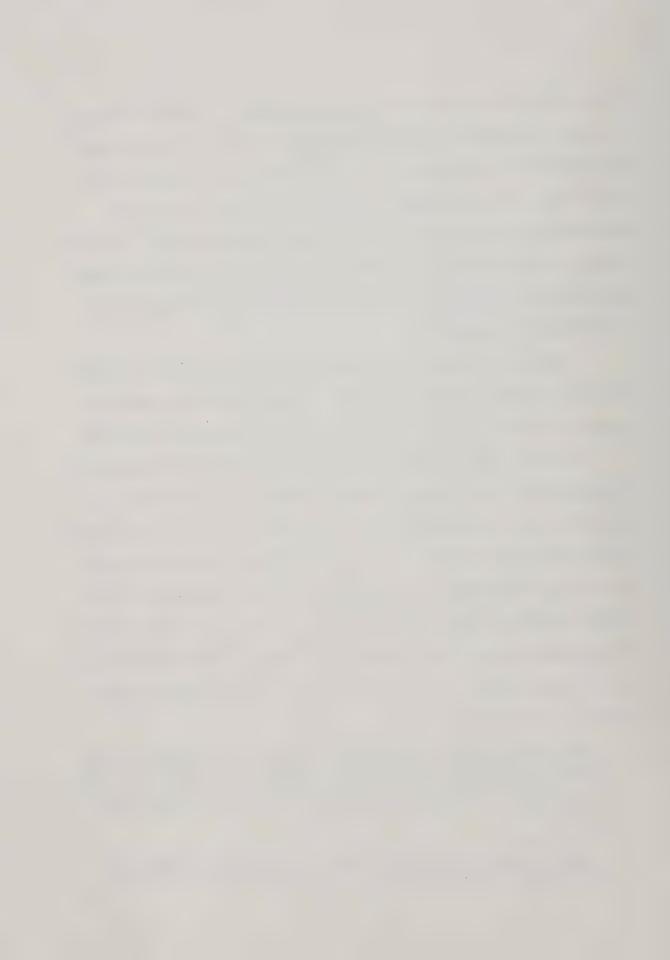
that meanings should not enter into consideration. "The only evidence for these mental processes is the linguistic process; they [meanings] add nothing to the discussion, but only obscure it." Chomsky on the other hand, sets as his goal the assessment of rules of speech as embodied in the competence of the individual speaker-listener. Although Chomsky is more directly concerned with the phonological and syntactic components of a grammar, he allows for the semantic component in his description of a grammar.

Faced with these divergent views concerning research in language, it is not surprising that teachers are perplexed about the nature of language and the appropriate strategies for teaching second languages.

Among linguists there has been a growing desire to apply scientific principles to the language learning process. Applied linguistics has exerted its influence not only on the linguistic content of language teaching courses but also on the very methodology of the classroom and the language laboratory. The development of audio-lingual and audio-visual courses have been efforts in this direction. One of the scientific principles to exert the greatest influence upon methodology has been that of "conditioning" or "habit formation". Politzer emphasizes the importance of this principle:

To summarize them, the psychological triangle underlying second language learning is: (1) pattern perception; (2) habit formation; (3) a set of already existing speech habits. All of these three are of necessity interlocked; all of them may in fact interfere with

⁴Noam Chomsky and Morris Halle, <u>The Sound Pattern of English</u> (New York: Harper & Row, Publishers, 1968), pp. 3-7.



each other. The answer of the linguistic approach as advocated in this text is: (1) creation of pattern perception; (2) automatization of response, especially at (3) the points of interference.5

Renard in describing the audio-visual structure-global method of Saint Cloud stresses the importance of conditioning:

En conséquence, un véritable reconditionnement est indispensable à qui veut apprendre une langue étrangère. Il faut créer des automatismes, des réflexes, il faut stimuler le cerveau. Il suffit pour cela d'appliquer autant que faire se peut les grandes lois du conditionnement.

Guberina adds that nobody can speak a foreign language if he has to think in advance about constructions and rules.

Language acquisition, however, involves much more than habit formation or conditioning. The need for meaningful use of language which involves intelligence and creativity is always stressed whenever imitation, repetition, and various drills are elevated to a privileged position. The phases of "exploitation" and "selection" of the audiovisual and audio-lingual courses are efforts to go beyond this initial stage and to allow for flexible application of the mastered structures to meet new contexts or situations.

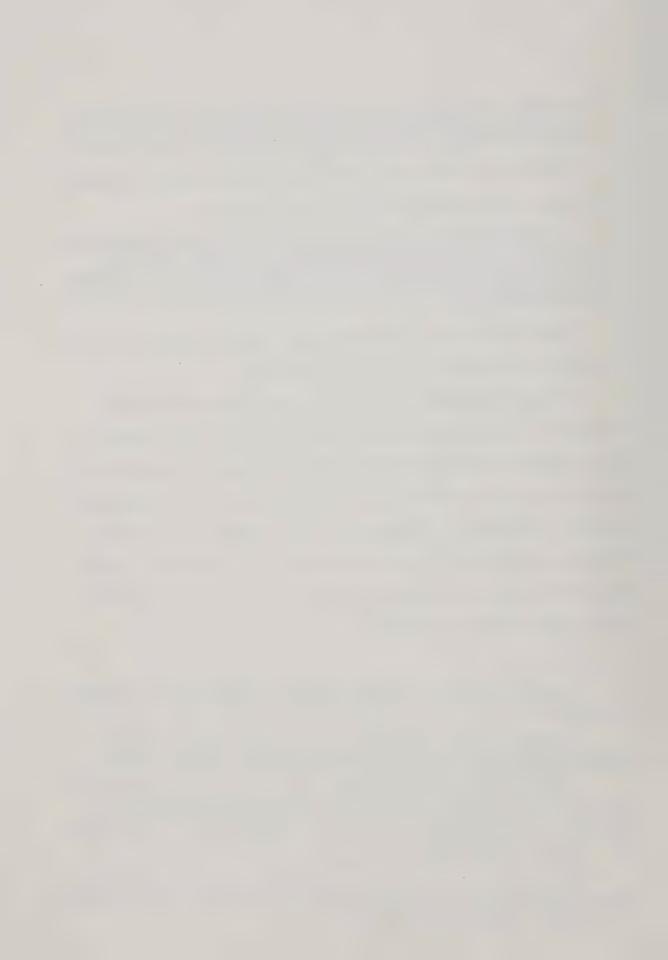
⁵Robert L. Politzer, <u>Teaching French</u>: <u>An Introduction to Applied Linguistics</u> (Boston: Ginn and Company, 1960), p. 16.

Raymond Renard, <u>L'enseignement des langues vivantes par la méthode audio-visuelle et structuro-globale de Saint Cloud - Zagreb</u> (Paris: Didier, 1965), p. 52.

[&]quot;Consequently, a true reconditioning is necessary for anyone who wants to learn a foreign language. One must create automatisms, reflexes; one must stimulate the mind. An adequate way of accomplishing this result is to apply as much as possible the main laws of conditioning." (Writer's translation)

⁷Petar Guberina, "The Audio-Visual Global and Structural Method,"

Advances in the Teaching of Modern Languages, B. Libbish, editor (New York: The Macmillan Company, 1964), p. 7.



S. Pit Corder, 8 stressing the importance of the visual element in language teaching, submits that language teachers have largely ignored what he calls the semantic skill. He describes the semantic skill as the acceptable use of patterns of a language in the right circumstances to communicate or produce the desired result in the hearer. This whole area of meaning, according to Corder, needs to be taught methodically. He postulates, therefore, that in teaching, a clear distinction should be made between motor-perceptive skills, organizational skills and the semantic skill.

Classroom practice in teaching the semantic skill reflects divergent approaches to the problem of meaning acquisition and to the problem of interference from the native tongue. On one hand, the audio-lingual method is based on an acceptance of the principle that meaning can be conveyed most effectively and most economically by the use of equivalent forms in the students' native language. On the other hand, Corder disagrees with this position:

But then we know we cannot achieve the learning of meaning any quicker by description or translation, however attractive the latter may appear superficially. It only takes a second to give a translation, but we should be fcols if we thought that the meaning had been learnt in a second also!9

The audio-visual structure-global method was devised to overcome the difficulty of conveying meaning. It is based on the assumptions that meaning can be conveyed by means of visuals and that the visuals act as

⁸s. Pit Corder, The Visual Element in Language Teaching (London: Longmans, Green and Co. Ltd., 1966), pp. 6-31.

^{9&}lt;sub>Ibid., p. 27.</sub>



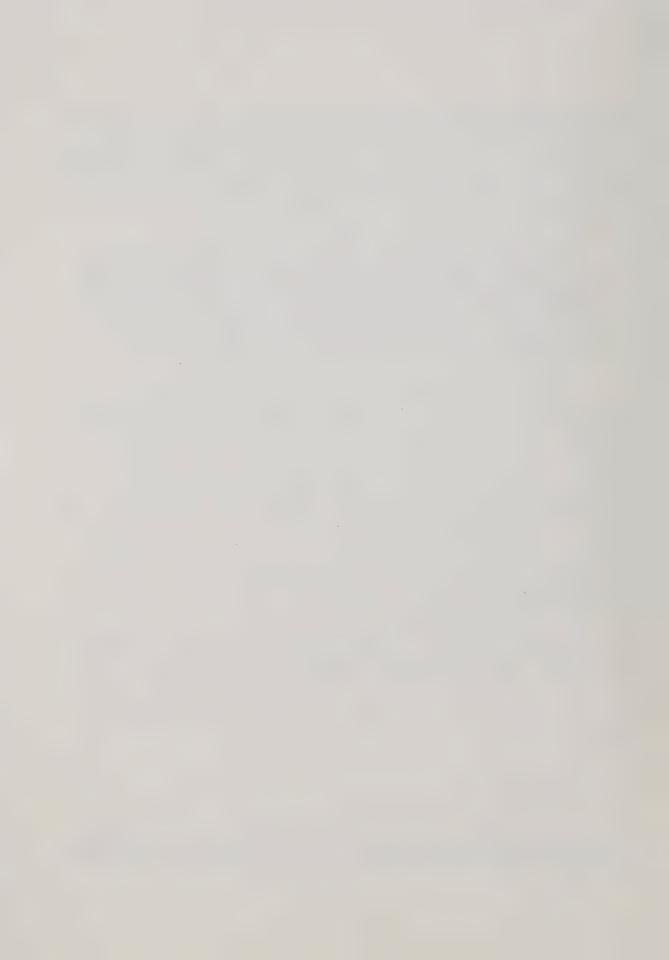
a neutral relay to correct the interference which arises from the use of the students' native language to convey meaning. Guberina in justifying the use of the audio-visual structuro-global method unreservedly accepts the effectiveness of pictures in conveying meaning:

A picture can represent not only objects, people and natural phenomena, but also the basic situations of everyday life. When the meaning is represented by a picture and a corresponding sound-signal, the basic function of language is achieved, i.e. the expression of meaning by sound....From a picture, or pictures, which represent a certain situation, the sentence will arise as its conventional signal to be mastered by the student. 10

Greimas 11 argues that this simultaneous presentation of the picture and an utterance in the target language does not convey meaning directly. The visual element may serve as a screen hiding the native language from the student, but it does not eradicate the existence of the native language patterns which are deeply rooted in the student. He goes on to suggest the visual element in an audio-visual course should be viewed as an artificial visual symbolic system based on conventions established from the beginning. He suggests using colours, for instance, to indicate gender, tense, and other grammatical categories difficult to externalize. With respect to the preponderant use of dialogue, Greimas advocates a greater use of narrative style as being less limiting than dialogue.

¹⁰ Guberina, op. cit., pp. 4-6.

¹¹A. J. Greimas, "Observations sur la méthode audio-visuelle de l'enseignement des langues vivantes," <u>Etudes de linguistique appliquée</u>, B. Quémada, editor (Paris: Didier, 1962), pp. 137-155.



Fleming 12 adopts the view that meaning can be conveyed by the use of visuals and that they should be used as a link, a bridge built to avoid the use of the mother tongue during primary and secondary language learning. Contrary to Greimas, Fleming et al. 13 stress the importance of using pictorial reality and of avoiding artificial means of pictorial clarification. According to Fleming, the use of balloons is totally unjustified for the reason that it adds complexity and defeats the purpose of the exercise, namely the use of pictures to convey meaning clearly and efficiently.

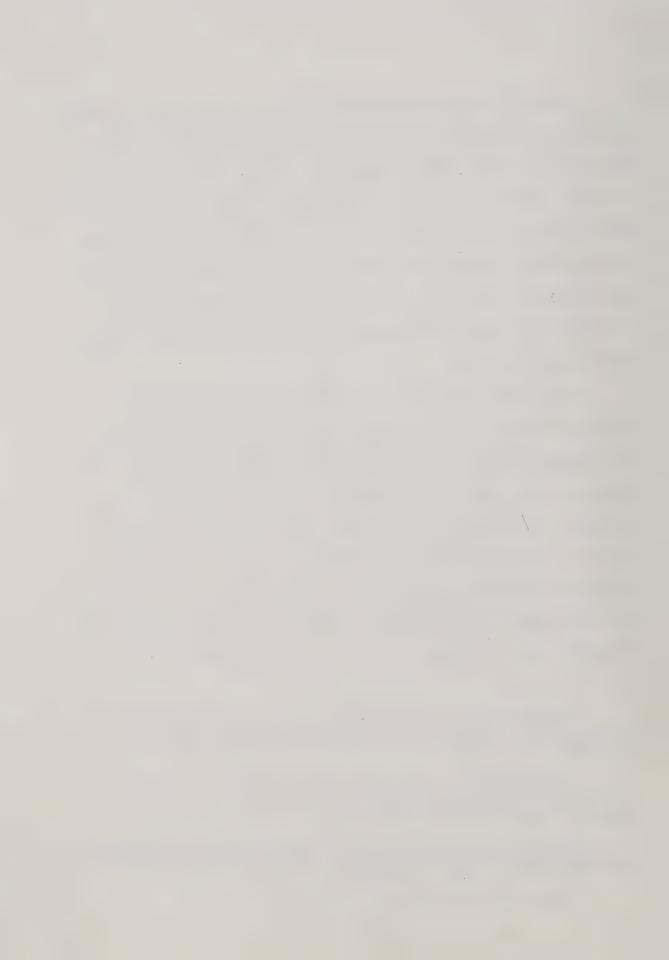
Cole¹⁴ does not place in doubt the value of the picture in teaching languages. He does express the opinion, however, that it is being justified with wrong arguments based on false ideas about meaning acquisition and these, in turn, lead to a wrong use of the picture in teaching. He agrees with Fleming¹⁵ that the association of text and picture is valuable and effective from the viewpoint of memorizing and recalling structures and vocabulary. Good pictures are a motivating factor and they inject an element of life into any story presented as a linguistic text. He raises the question, however, whether the chief

¹² Gerald Fleming, "The Structured Response-Evoking Potential of Organized Visual Communicators," <u>Audio-Visual Language Journal</u>, 5 (1967-1968), pp. 71-74.

¹³Gerald Fleming, E. Spaleny, and J. Peprnik, "The Didactic Organisation of Pictorial Reality in the New Language Teaching Media," Praxis, 14 (April, 1967), pp. 160-172.

¹⁴Leo R. Cole, "The Psychology of Language Learning and Audio-Visual Techniques," Modern Languages, 49 (Dec., 1968), pp. 166-172.

¹⁵ Fleming et al., op. cit., p. 170.



function of a visual is to act as a substitute for a translation into the mother tongue. To answer this question he cites an experiment by C. J. Dodson. 16 Dodson compares the results of different sequencing or phasing of visual (picture, printed phrase) and aural (mother tongue, foreign language) stimuli. Conclusions are arrived at which support the giving of English equivalents in the early stages of teaching younger children.

The meaning experiments clearly indicated that the most efficient and rapid method of presentation for the learner is the one where the meaning of the foreign language sentence is acquired by means of the mother tongue equivalent and retained by means of pictures. 17

Cole agrees with Greimas in disputing the assumption that using the visual element automatically overcomes any interference from the mother tongue. For him the interference may be present in a covert way.

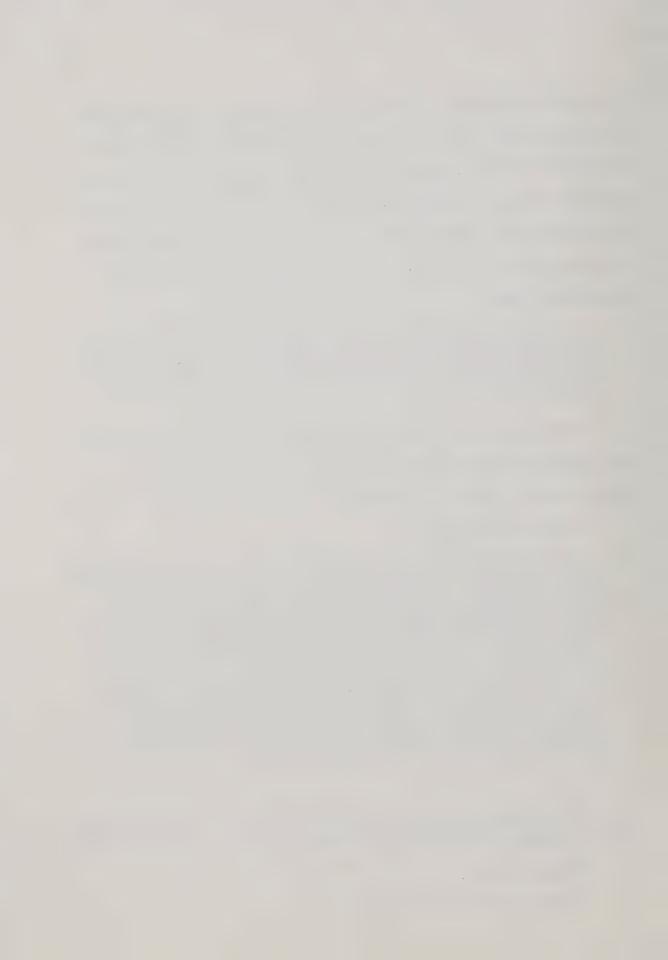
Cole concludes that:

It must not be assumed by audio-visual exponents that the picture serves as a kind of universal neutral relay and acts as an effective agent in lessening interference from the mother tongue. If it does not forcefully lessen interference, then it may be a long way round to establish foreign language structures and be too time-consuming unless it has other merits. These other merits I think it does have: it focuses attention, stimulates and adds interest, provides a means of revision and aids recall, and can provide semantic elements distinctive of the foreign culture in question. The issue we have been considering, however, is still in need of further research of a psychological nature: in practice the meaning-acquisition problem is momentarily overcome by using translation or pictures, or a combination of both. 18

^{16&}lt;sub>C</sub>. J. Dodson and J. E. Price, "The Role of the Printed Word in Foreign-Language Learning," Modern Languages, 47 (June, 1966), pp. 59-63.

¹⁷ Ibid., p. 60.

¹⁸Cole, op. cit., pp. 170-171.



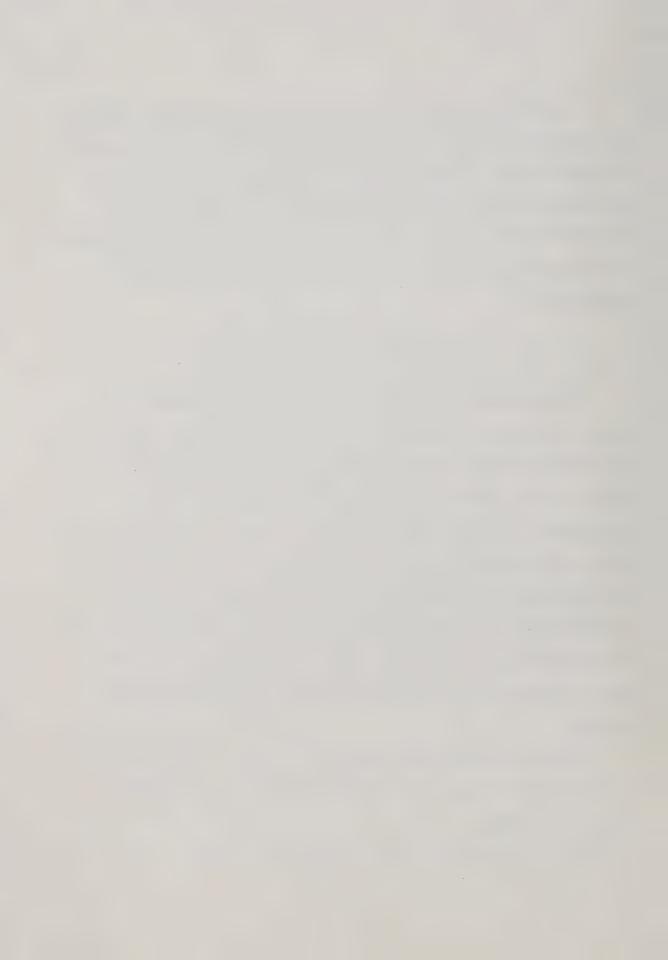
In summary, the development of an adequate methodology of secondlanguage teaching rests upon an adequate theory of the nature of secondlanguage learning. Divergent views of psychologists and linguists in what constitutes adequate theory and relevant strategies of inquiry make this a difficult task. The area of greatest concern to the language teacher at the present is that which concerns problems of meaning acquisition.

II. SIGNIFICANCE OF THE PROBLEM

The preceding survey reveals different points of view with respect to the use of pictures in second language teaching. On one hand, there are those who maintain that meaning can be effectively conveyed by the use of visuals, and that visuals should be used to minimize the interference from the native language. On the other hand, other authors claim that conveying meaning through the visual element does not lessen interference from the native language and that the process is too time consuming and not sufficiently effective to be used to convey meaning. In the latter instance, however, visuals may be used to help the student develop and retain meaning once it has been acquired.

Before conclusions can be reached as to the use of pictures in teaching second languages, the following questions, among others, need to be answered:

1. Can all types of meanings be conveyed equally well?



- 2. Are the elements of the picture equally effective in conveying meaning?
- 3. What are the effects of context, complexity, and use of ideographemes on interpretation?

This study is an attempt to find answers to these questions.

III. STATEMENT OF THE PROBLEM

The primary object of this study was to investigate the role of semiotic factors in communicating meaning through the visual element in second language learning. In order to do so a framework of research based on semiotics, the general theory of signs, was elaborated. Secondarily, the information obtained from the study of these factors was used in an attempt to reach conclusions with respect to the use of visuals in second language teaching.

To determine the factors involved, the intended messages of a random sample of thirty pictures were analyzed with respect to the components of meaning of these intended messages and with respect to the pictures used to convey these components of meaning. The subjects' responses to these pictures were analyzed to determine the degree of correspondence between the intended messages and the received messages.

The study, then, tested the effect of the syntactic categories of the medium and the semantic categories of the content in conveying the intended messages.

The investigation also dealt with the effect of mode of presentation. It tested the effect of the syntactic and semantic categories by



a comparison of the subjects' responses to pictures presented in isolation and in context.

Pictures were further categorized for the pictorial characteristics of complexity and use of ideographemes. The effect of these factors on interpretation were investigated.

In summary, then, the object of this study was to identify some of the relevant semiotic factors involved in communicating meaning and to shed some light on some of the semiotic processes involved in interpretation of pictures used to convey situational meaning.

IV. PLAN OF THE REPORT

Chapter II, first, deals with a review of the research in interpreter factors in conveying meaning through the visual element.

Secondly, it gives a brief overview of the theoretical and descriptive research which will serve as a guide in establishing the framework for the study. Chapter III elaborates the framework for research in the semiotic factors involved in communicating meaning. Chapter IV outlines the research methodology and Chapter V deals with the conclusions and suggestions for further research.



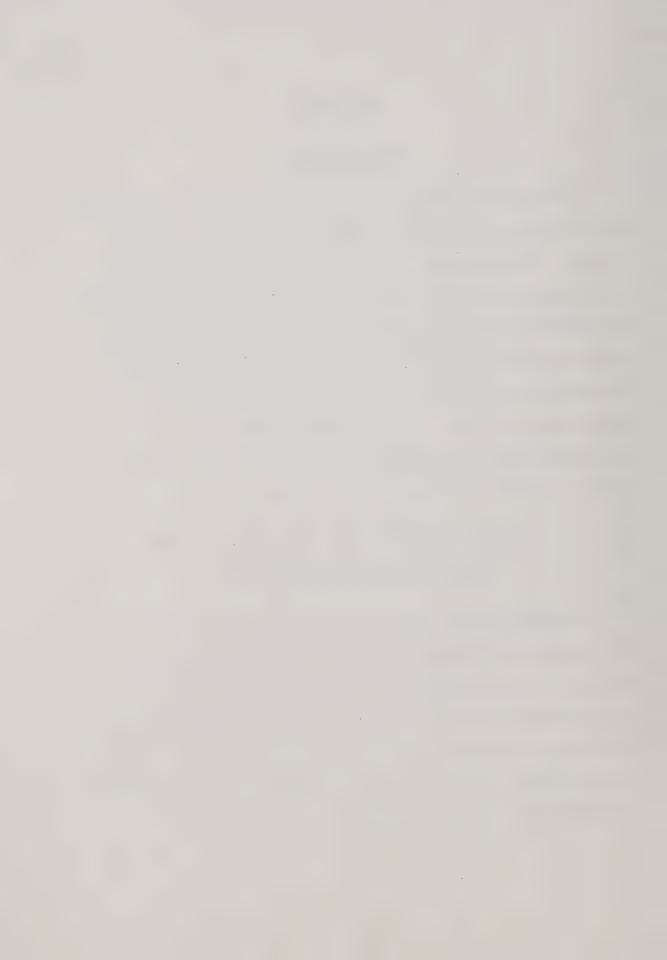
CHAPTER II

PREVIOUS RESEARCH

The preceding chapter has been devoted to a survey of various points of view related to the function of the picture in language teaching. These divergent views stem from an area of uncertainty concerning problems of the communication process in language teaching. Communication involves an interpreter, something to be communicated, and an instrument of communication. With a view to establishing a framework for research in what is being communicated and how it is being communicated, the first part of this chapter will deal with empirical research involving the interpreter; the second part will deal with research in the communicative process.

I. RESEARCH IN INTERPRETER FACTORS IN COMMUNICATING MEANING THROUGH THE VISUAL ELEMENT

Although much has been written in the past decade about the use of pictures in language teaching, few empirical studies have been reported. The main contributors to research directly related to this study have been primarily concerned with mode of presentation, comprehension versus recall, and factors involving interpreters. Some factors related to pictures, however, are mentioned and they will be reported in this review of the research.



Mialaret and Malandain conducted an exploratory study on psychological factors involved in the use of pictures in teaching a second language. They compared four groups of students in their ability to interpret three series of pictures from the course, Voix et Images de France? The subjects were from four different grade levels: cours élémentaire lère année (seven to eight years of age) cours élémentaire 2^e année (eight to nine years of age) cours moyen lère année (nine to ten years of age) cours moyen 2^e année (ten to twelve years of age)

The responses to the pictures were coded as enumerations, descriptions, and interpretations, using Binet and Simon's criteria.

The authors report a substantial difference in the ability of the groups to interpret pictures correctly. The seven and eight year old subjects experienced difficulty in producing a correct synthesis. Only 4.4 per cent of them succeeded compared with 54.8 per cent for the ten to twelve year old subjects. The number of enumerations decreased with age while conversely, the number of interpretations increased with age.

The authors of this study conclude that the pictures used in Voix

¹G. Mialaret and C. Malandain, "La perception du film fixe chez l'enfant," Etudes de linguistique appliquée, (Publications du centre de linguistique appliquée, No. I, Paris: Didier, 1962), pp. 95-103.

²P. Guberina and P. Rivenc, <u>Voix et Images de France</u>, méthode rapide de Français: cours de débutants adultes (Paris: Didier, 1961), p. 195.

³A. Binet and Th. Simon, <u>La mesure du développement de l'intelligence chez les jeunes enfants</u> (Paris: Bourrelier, 1951), p. 46.



et Images de France cause problems for students below the age of ten.

They may be used, however, for students above that age since the subjects in that age group show an ability to interpret pictures close to adult norms. With respect to pictures the authors have the following comments to make:

- (1) The results obtained vary greatly as a function of the picture.
- (2) It is imperative that pictures contain only the essential elements to convey the general idea of the sequence.
- (3) For subjects below the age of ten pictures should represent only concrete actions.
- (4) For that same age group, pictures should have sufficient unity to be interpreted independently of the context or sequence of pictures.
- (5) A picture in isolation may elicit several meanings. Only the use of context will induce students to choose between them. Subjects below the ages of eleven and twelve, however, experience great difficulty in interpreting a series of pictures.

Mialaret and Malandain⁴ conducted the following study to discover the difference between comprehension and recall using the same projected filmstrip sequences and the same division of subjects by grade level as in the previous experiment.

In this study, results similar to those of the previous study with respect to synthesis and type of response, i.e., enumerations,

⁴G. Mialaret and C. Malandain, "Etude de la reconstitution d'un récit chez l'enfant à partir d'un film fixe", <u>Enfance</u> (mars-avril, 1962), pp. 169-190.



descriptions, and interpretations, were obtained and the same general conclusions were reached. Two further findings, however, are of importance to the present study. (1) The mean number of correct responses for each film sequence was appreciably different. Filmstrips one, two, and three elicited 13, 27, and 30 per cent correct responses respectively. These results point to the differential effects of sequences of pictures on interpretation. (2) A first viewing of the picture is a determining factor in subsequent interpretation. A student who misinterprets a picture in the first viewing will show a marked tendency to persist in making the same error subsequently.

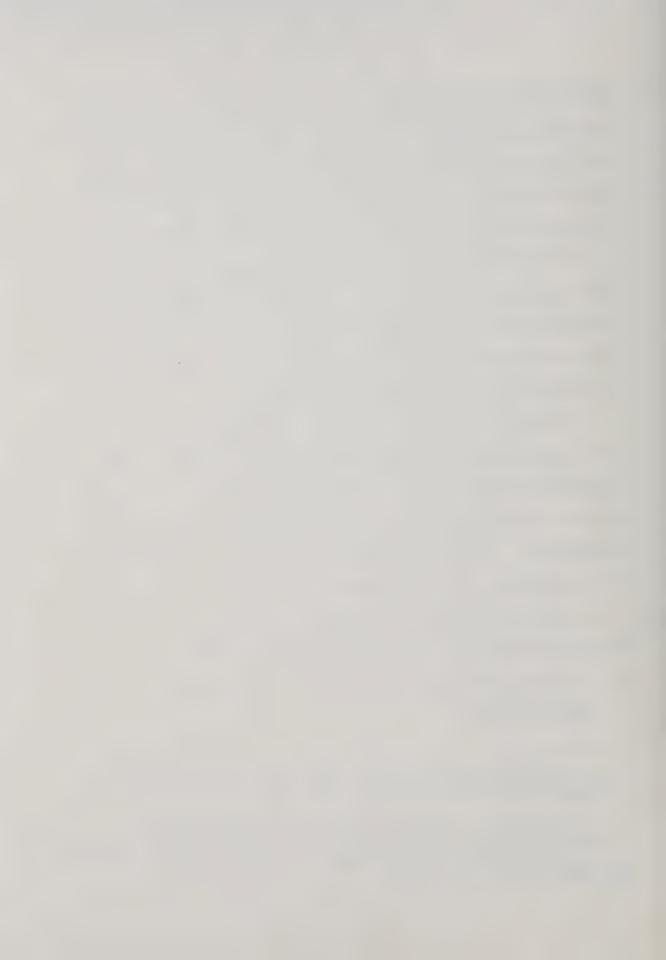
Using pictures from a course designed to teach English⁵ as a second language, Guénot, Sturge-Moore, and Tardy⁶ designed a study (1) to investigate whether subjects improve in the ability to interpret pictures and (2) to identify pictorial characteristics which influence comprehension. Tests of comprehension of pictures were conducted prior to teaching lessons one, four, seven, ten, thirteen, and seventeen.

The responses were classified into two groups: acceptable and unacceptable responses. The responses judged acceptable were:

(1) sentences whose meaning was equivalent to the meaning of the English dialogue,

⁵J. Guénot, <u>Lend Me Your Ear</u> (Saint-Cloud: Ecole Normale Supérieure, 1960)

⁶J. Guénot, C. J. Sturge-Moore, and M. Tardy, "Etudes sur l'évolution de l'aptitude des sujects à lire les vues fixes et introduction à une étude sur la lisibilité des vues fixes," <u>Etudes de linguistique appliqueé</u>, 1 (1962), pp. 104-135.



- (2) sentences whose meaning was equivalent but contained additional information,
- (3) sentences shorter than those of the dialogue but which respected its meaning.

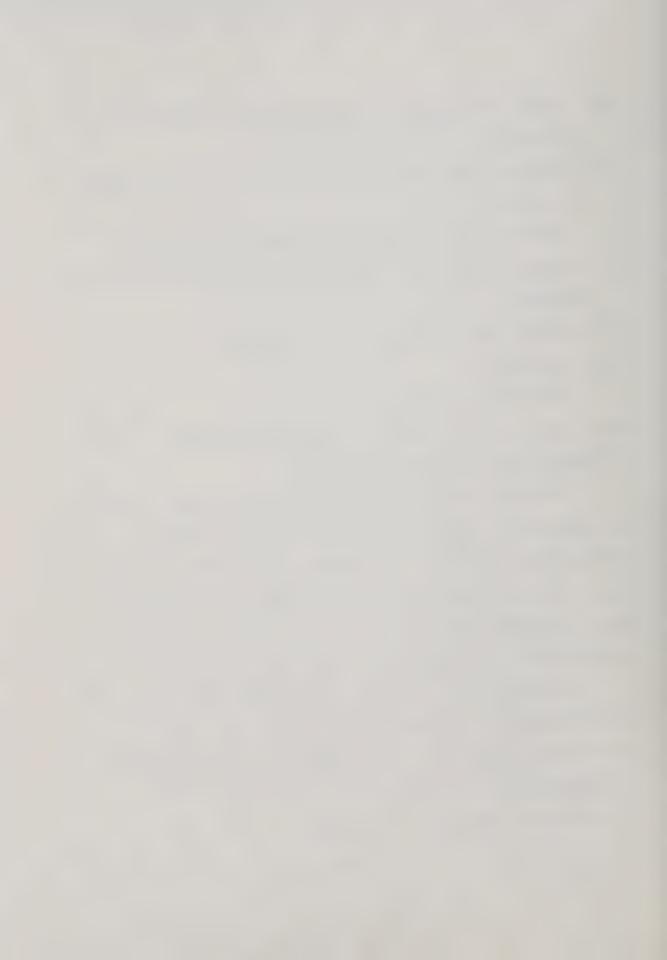
The following were classified as unacceptable responses:

- (1) sentences containing a slight misinterpretation with respect to the dialogue,
- (2) sentences containing a gross misinterpretation,
- (3) no response.

The results of this study showed that, as the course progressed, there was an increase in acceptable responses paralleled by a decrease in grossly incorrect and unanswered items.

The test of comprehension on lesson seven was also administered to a group of nine adult students from the British Institute who had not previously been initiated to the course. Their results were compared to those of the experimental group. These results showed a larger percentage of acceptable responses and a smaller percentage of unacceptable responses for the experimental group over the control group.

An inspection of four of the pictures which showed a high degree of misinterpretation revealed the following pictorial characteristics which impede comprehension: (1) an important detail is too small; (2) a person in a balloon is the same size as the one in the picture; (3) the person speaking is in the background.



Malandain developed a series of sixteen pictures primarily intended to investigate (1) the differences between modes of presentation (projected filmstrips and pictures on paper), (2) the ability of students in perceiving the link between pictures forming a sequence, (3) the effect of structuring the series of pictures according to chronological sequences of events or in terms of characters of the story, and (4) the effect of presenting the dialogue with or without the picture.

The sixteen pictures dealt with the description of daily events in the life of a family. These pictures were presented simultaneously either on a screen or on paper. They were interpreted by students at four grade levels:

cours préparatoire (six to seven years of age)

cours élémentaire l^{ère} année (seven to eight years of age)

cours élémentaire 2^e année (eight to nine years of age)

cours moyen l^{ère} année (nine to ten years of age)

Malandain found no significant difference in productivity in interpretation of pictures between grade levels. The same results were obtained for chronological age within grade levels and for mode of presentation (projected filmstrips and pictures on paper). A significant difference was reported, however, in correct responses between grade levels. The results varied from 33 per cent correct responses for cours préparatoire (six to seven years of age) to 70 per cent

⁷Claude Malandain, <u>Utilisation</u> <u>des films fixes pour l'enseignement des langues vivantes aux enfants</u> (Paris: Didier, 1966), pp. 20-53.



for cours moyen lère année (nine to ten years of age). Malandain concludes that almost all the students nine to ten years of age are able to interpret pictures correctly.

Malandain also found a substantial range in correct responses to the sixteen pictures. The range in percentage of correct responses varied from 18 per cent for picture eight to 65 per cent for picture two. Although no significance test was performed on these results, this range is greater than that between grade levels.

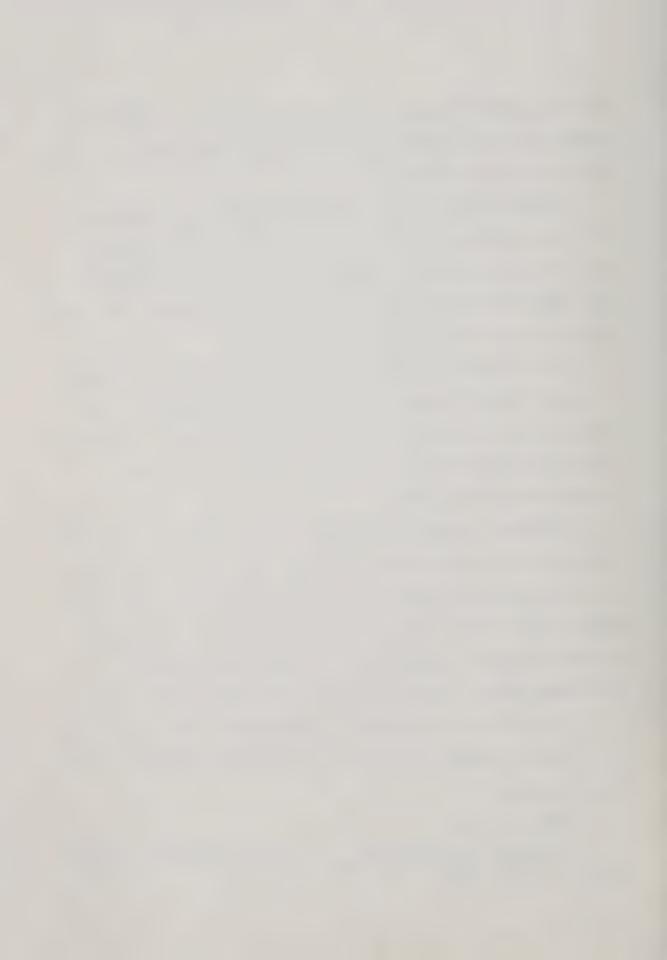
In the next study designed to determine the ability of students to perceive the link between pictures, Malandain considered two main factors: (1) the subjects' ability to recognize the characters from one picture to another and (2) the subjects' ability to perceive the temporal succession of events.

There was a significant difference as in previous studies between grade levels in recognizing the characters from one picture to another and in expressing the periods of the day. There was also a significant difference between modes of presentation (on filmstrip and on paper). The author explains the latter results by referring to Piaget's distinction between "activité perceptive" and "activité exploratrice".

In a subsequent study aimed at exploring the effects of structuring the series of pictures according to chronological sequence of events

⁸ Ibid., pp. 55-67.

⁹J. Piaget, <u>Le développement de la notion de temps chez l'enfant</u> (Paris: P. U. F., 1946).



or in terms of characters, Malandain 10 divided his subjects into three groups. Group A saw the sixteen pictures of the previous experiments in chronological order on filmstrip. Group B saw the same pictures, also on filmstrip, organized in terms of characters. Group C saw the pictures grouped together and projected by means of a slide.

Subjects in group A were significantly better at perceiving the chronological development of events; subjects in group B were significantly better at identifying the characters; subjects in group C obtained almost as high results as subjects in group A in expressing the chronological development of events and as the subjects in group B in identifying characters. Subjects in groups A and B, however, gave more detailed and better elaborated responses than the subjects in group C.

The final experiment reported by Malandain 11 investigated the effect of presenting the pictures with and without dialogue. The sixteen pictures of the previous experiments served as stimuli. The subjects, ranging from eight to ten years of age, were divided into three groups. The subjects in group A saw the pictures without dialogue; the subjects in group B heard the dialogue in their native tongue without the accompanying pictures; the subjects in group C saw the pictures and heard the accompanying dialogue in their mother tongue.

The subjects saw or heard the story once and then were asked to tell the story. The same procedure was followed a second time. This

¹⁰ Malandain, op. cit., pp. 97-113.

^{11 &}lt;u>Ibid.</u>, pp. 115-148.



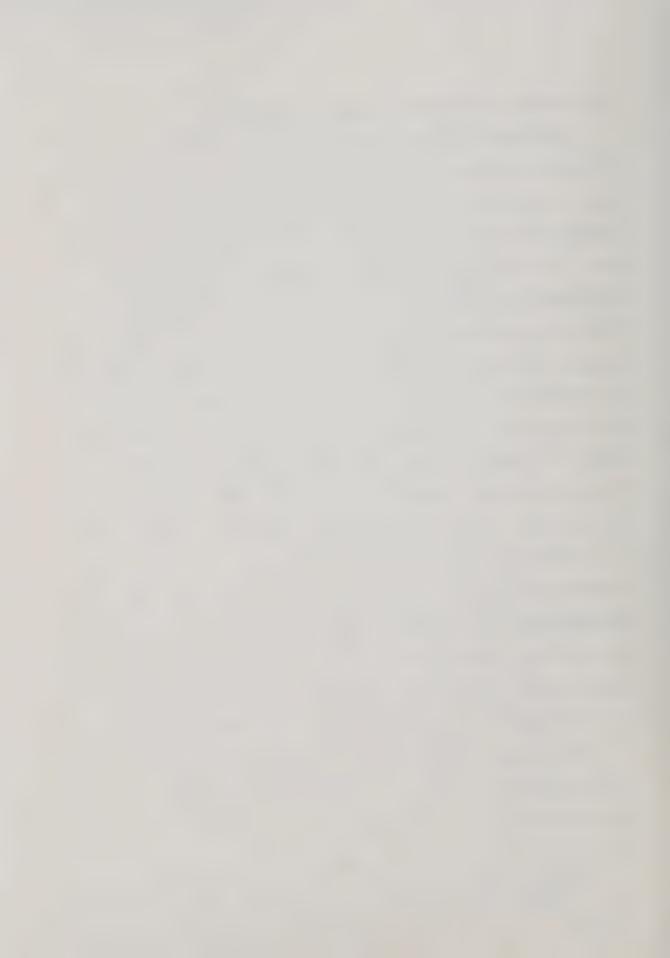
time, however, the subjects' responses were recorded.

The results of this investigation led the experimenter to the following conclusions: (1) In telling a story, the subjects observe a logical rather than a chronological order. When subjects adopted a chronological order of presentation of facts, they seldom completed the story. (2) The subjects exposed to the verbal stimulus were more successful in organizing their narratives. The subjects exposed to the visual stimulus without dialogue, on the other hand, had to organize the messages of the pictures in an adequate narrative. They were, therefore, at a disadvantage. (3) Some subjects' narratives show a preponderance of dialogue; others show a predominance of descriptions of actions or events. (4) Subjects who saw the pictures without the dialogue show a tendency to describe. Subjects who heard the dialogue with or without pictures show a tendency to express their responses in dialogue form.

Malandain concluded that using visual aids effectively in the classroom entails certain consequences. The visual element must take precedence over the linguistic element. The visual elements used must present a clear, unambiguous situation. It follows, then, that a course making use of visual aids must be organized around the pictures and not around a linguistic corpus the meaning of which must be conveyed.

It is only at the age of eleven or twelve that the child becomes capable of formal operations. Malandain considers a formal operation as "une opération du second degré, procédant sur des signes." At this

^{12 &}lt;u>Ibid.</u>, p. 147.
"second degree operation, dealing with signs." (Writer's translation.)



stage, the student no longer interprets a picture solely as a reality with its own existence but as a sign of something else.

The picture, thus, becomes a means of communication. At this stage in the student's development, problems of interpretation are a result of the quality and the pedagogical uses of the picture.

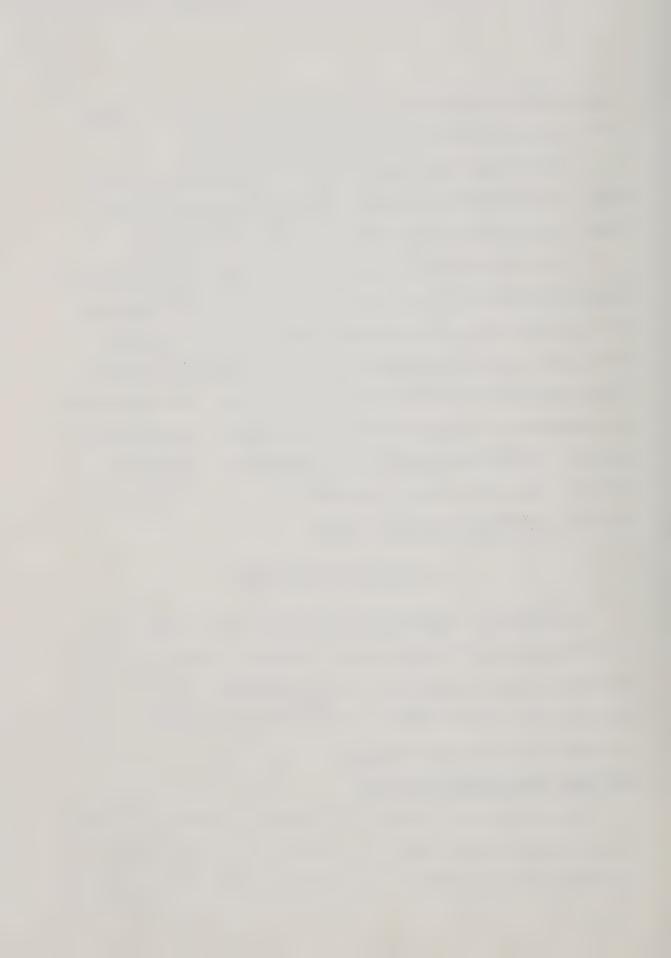
The studies reported in this section have dealt mainly with modes of presentation of visual materials and factors due to the interpreter, his age, grade level, and mental age in the acquisition of meaning. These studies, however, consider pictures as global stimuli eliciting either enumerations, descriptions, or interpretations. The pictures are not considered as compounds of elements of reality to convey intended messages. If pictures become means of communication, as Malandain concludes, then, they must be studied from the point of view of signs intended to communicate intended meanings.

II. RESEARCH IN COMMUNICATION

Research in the communication process pertinent to this study may be divided into (1) theoretical and descriptive research, and (2) empirical research in communicating emotional meaning. In this brief review the stress will be placed on those elements of communication that are amenable to visual representation.

Theoretical and Descriptive Research

The elaboration of a framework for research into stimulus factors in conveying meaning must take into consideration two main sources of contribution to communication: (1) information theory and (2) linguis-



tic studies.

Information theory. Several studies in linguistics have made use of the information theory model. Spaleny and Peprnik¹³ suggest that this same model may be adopted for the investigation of factors in conveying meaning through visuals.

Shannon and Weaver 14 present the general model that mathematicians have constructed of the communication process in the theory of telecommunications engineering. This process involves a source selecting a message that is encoded into signals by a transmitter; a channel transmits the message; a receiver decodes the signals so that the destination can recover the original message. Norbert Wiener 15 adds the concept of feedback which introduces circular processes into the model.

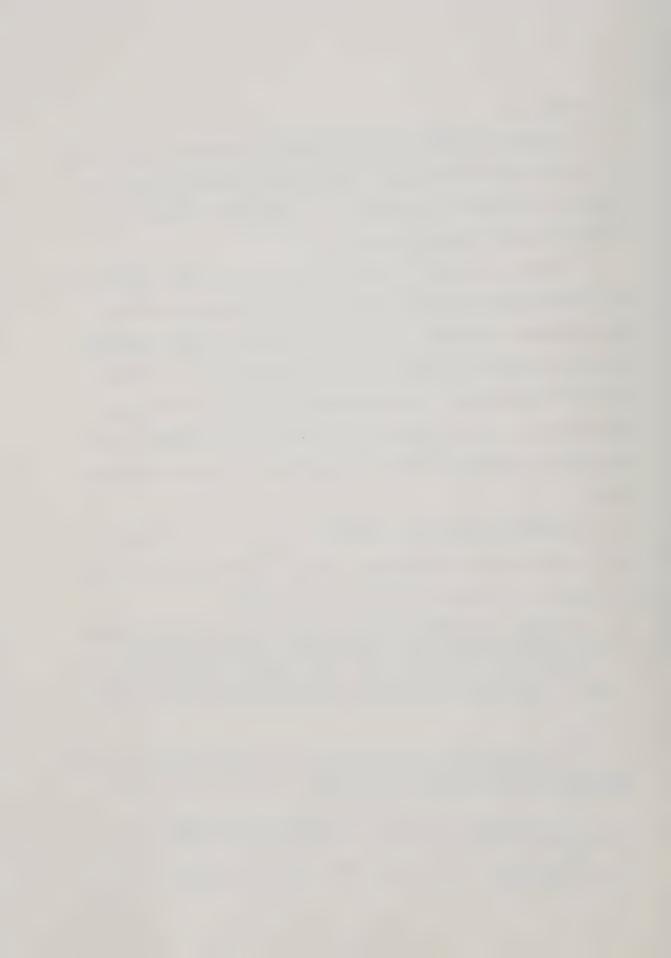
Although cybernetics and information theory have an important role to play in suggesting empirical leads and theoretical perspectives for studies in communication, Colin Cherry cautions:

In fact, we should warn the reader the theory is not concerned with communication at all—only with the semantic information "contained in" statements. Care must be taken to guard against temptation to use this theory, and the information measure it sets up, in relation to experimental psychological work. The theory

E. Spaleny and J. Peprnik, "Foreign Language Teaching Picture as an Organised System," <u>International Review of Applied Linguistics in Language Teaching</u>, 4 (Nov., 1967), p. 172.

^{14°}C. E. Shannon and W. Weaver, The Mathematical Theory of Communication (Urbana: University of Illinois Press, 1949).

¹⁵ Norbert Wiener, "Cybernetics," <u>Scientific American</u>, 179 (1948), pp. 14-18.



relates only to the semantic and syntactic aspects of <u>language</u> systems and abstracts from pragmatics. 16

Rommetveit adds this warning about extrapolating from the principles of information theory to communication of messages.

Note, furthermore, that no unequivocal inference is possible from transmission of message to transmission of information as defined within the framework of information theory. . . In the case of the message concerning the wet paint, for instance, my wife might under certain conditions have absolutely no expectations that the door would be painted. Under other conditions, she might have a firm belief that such would be the case before she happened to read my written note. The latter would convey the same message in the two situations but the amount of information transmitted would be strikingly different. 17

For the reasons mentioned, information theory has serious limitations with respect to establishing a framework for research in the communication process as envisaged in this study. It will, however, provide some general guidelines in constructing the framework.

Linguistic studies. Although studies in linguistics since de Saussure, 18 Sapir, 19 and Bloomfield 20 became almost exclusively the study of linguistic form for its own sake, some linguists have played a significant role in developing a theory of the process of communication.

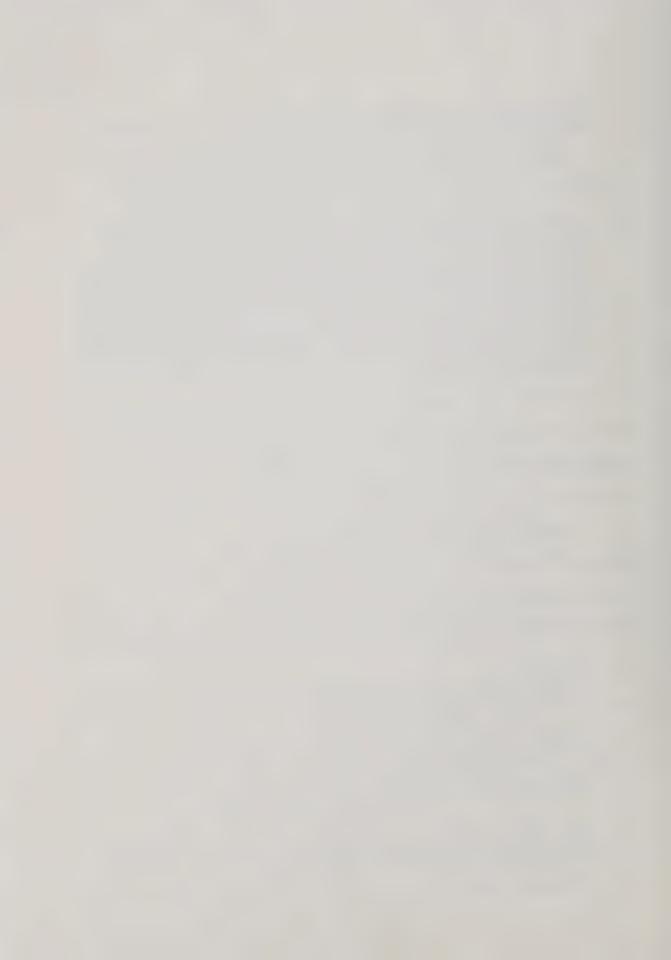
¹⁶ Colin Cherry, On <u>Human Communication</u> (Cambridge, Massachusetts: The M. I. T. Press, 1966), p. 238.

^{17&}lt;sub>Ragnar</sub> Rommetveit, <u>Words</u>, <u>Meanings</u>, <u>and Messages</u> (New York: Academic Press, 1968), p. 41.

^{18&}lt;sub>F</sub>. de Saussure, <u>Cours de linguistique générale</u> (Paris: Pagot, 1916).

^{19&}lt;sub>E</sub>. Sapir, <u>Language</u>: <u>An Introduction to the study of Speech</u>, (New York: Harcourt, Brace & World, 1939).

²⁰ Leonard Bloomfield, Language (New York: Holt and Co., 1945).



The main concern of these linguists has been the study of various modalities of communication accompanying speech and of the codes in terms of which they are interpreted. Generally, the work of these linguists has come under the rubric of "semiotics", the general study of systems of signs.

The main areas of research under this rubric are (1) paralinguistics, (2) studies of body motion, and (3) proxemics.

Paralinguistics. Paralinguistics has been adopted as the name for the study of phenomena of voice apart from the linguistic code.

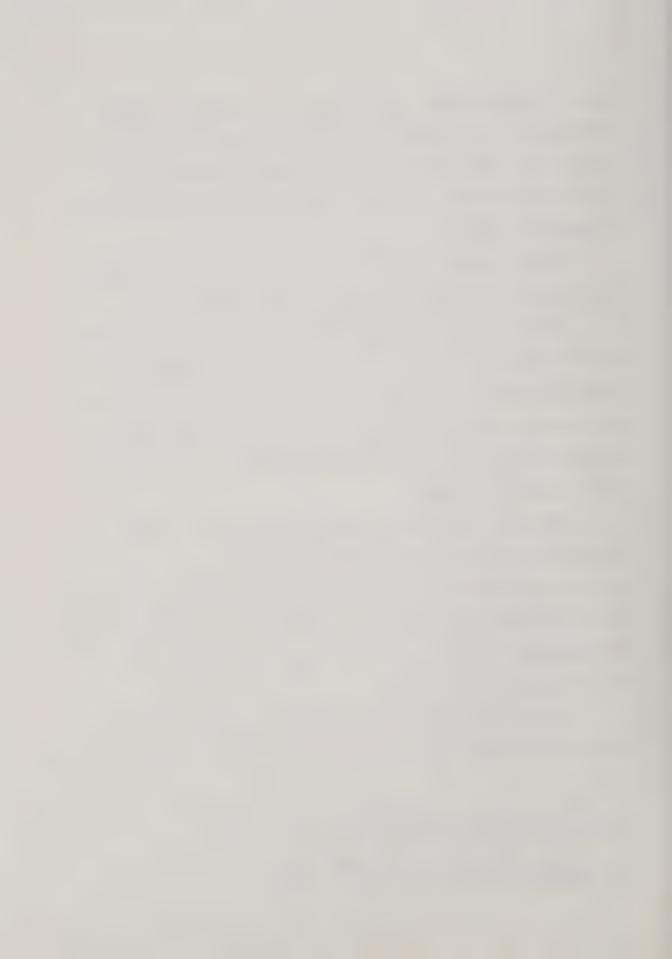
Trager²¹ has given a provisional systematic outline of the phenomena, and has drawn up an initial transcriptional system. These phenomena comprise voice set as a background against which are measured voice qualities and vocalizations.

Pittenger, Hockett, and Danehy²² have conducted an extensive investigation using Trager's linguistic description. Since paralinguistic features are not open to pictorial representation, however, they have little relevance to this study. In its basic principles, however, paralinguistics has relevance to this study since it has served as a model for studies in kinesics.

Studies in body motion. The function of body motion in the communication process has been the object of extensive study. Several

²¹G. L. Trager, "Paralinguistics - A First Approximation", Studies in Linguistics, 13 (1958), pp. 1-12.

²²R. E. Pittenger, C. F. Hockett, and J. J. Danehy, <u>The First Five Minutes</u> (New York: Paul Martineau, 1960).



coding systems have been elaborated. The main contributors to this area of research, in recent years, have been Birdwhistell, 23 Greimas, 24 Koechlin, 25 Kristeva, 26 Rastier, 27 Cresswell, 28 Sebeok, 29 Hayes, 30 La Barre, 31 Rommetveit, 32 and Monod. 33

From the studies in body motion two main areas of conflict

²³R. L. Birdwhistell, "Implications of Recent Developments in Communication Research for Evolutionary Theory, <u>Georgetown University Monograph Series on Languages and Linguistics</u>, 11 (1958), pp. 149-155.

²⁴A. J. Greimas, "Conditions d'une sémiotique du monde naturel," Langages, 10 (juin, 1968), pp. 3-35.

²⁵B. Koechlin, "Techniques corporelles et leur notation symbolique," <u>Langages</u>, 10 (juin, 1968), pp. 36-47.

²⁶J. Kristeva, "Le geste pratique ou communication," <u>Langages</u>, 10 (juin, 1968), pp. 48-64.

²⁷F. Rastier, "Comportement et signification", <u>Langages</u>, 10 (juin, 1968), pp. 76-86.

²⁸R. Cresswell, "Le geste manuel associé au langage," <u>Langages</u>, 10 (juin, 1968), pp. 119-127.

²⁹T. A. Sebeok, "Coding in the Evolution of Signalling Behavior," Behavioral Science, 7 (1962), pp. 430-442.

³⁰Alfred S. Hayes, "Paralinguistics and Kinesics: Pedagogical Perspectives," Approaches to Semiotics, Thomas A. Sebeok, Alfred S. Hayes and Mary Catherine Bateson, editors (The Hague: Mouton & Co., 1964), pp. 145-169.

³¹Weston La Barre, "Paralinguistics, Kinesics, and Cultural Anthropology," Approaches to Semiotics, Thomas A. Sebeok, Alfred S. Hayes and Mary Catherine Beateson, editors (The Hague: Mouton & Co., 1964), pp. 191-220.

³² Rommetveit, loc. cit.

³³ Pierre A. R. Monod, "La langue et le geste" (unpublished doctoral dissertation, Université de Strasbourg, 1969).



emerge. The first is the distinction between cultural information or cultural meaning, on one hand, and communication of messages, on the other. Dell Hymes expresses the need for this distinction as follows:

It is precisely the determination of where the participants in an event or the members of a community distinguish between messages, on the one hand, and signs and information, on the other, that must be basic to ethnographic studies of communication. . The import of the notion is much like that of the equation of culture with communication. . To adduce a specific case: furniture and the furnishings and makeup of a house, may be considered messages from such a standpoint, which considers material culture, like the rest of culture, to be part of a semiotic system. . An observer may be able to obtain a wealth of information about the inhabitants from their house. What portion of its manifest features is information from them, in the sense of expressing choices they have themselves made or accepted, is problematic without inquiry. 34

Buyssens presses the point still further:

La sémiologie peut se définir comme l'étude des procédés de communication, c'est-à-dire des moyens utilisés pour influencer autrui et reconnus comme tels par celui qu'on veut influencer. . . Il est possible d'agir sur autrui sans le vouloir: la façon de parler de notre ami peut vous suggérer qu'il est soucieux; la prononciation d'un inconnu peut révéler qu'il est étranger. . . Il s'agit là d'indices; nous les identifions, nous les interprétons, mais il n'y a pas communication.

³⁴Dell Hymes, "The Anthropology of Communication," <u>Human</u>
<u>Communication Theory</u>, Frank E. X. Dance, editor (New York: Holt, Rinehart and Winston, Inc., 1967), pp. 1-32.

Bruxelles: Presses Universitaires de Bruxelles, 1967), pp. 11-12.

"Semiotics may be defined as the study of communicative processes, i.e. as a study of the means used to influence others and recognized as such by the addressee. .It is possible to exert influence on others without intending to do so; a friend's speech may suggest that he is anxious; the pronunciation of a stranger may reveal that he is a foreigner. .These are indices; they are identified and interpreted but there is no communication." (Writer's translation).



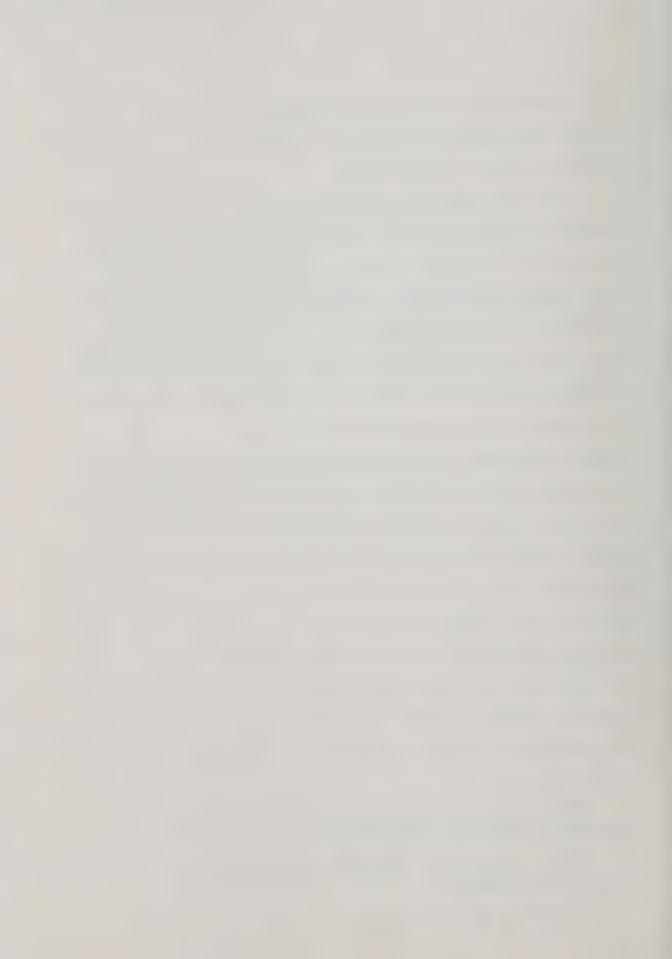
Communication, therefore, involves intention to communicate on the part of the sender of the message. It also involves the use of means with the intention of communicating.

The second main point of controversy, with respect to body motion. concerns the nature and the structure of this communication process. Birdwhistell 36 has adopted the term "kinesics" for the study of the visual aspects of interpersonal communication, in so far as they are of body motion. He has defined body motion in terms of "kines," "kinemes," "kinemorphs," and "kinemorphemes." These terms are analogous to those of linguistic description. This author states, however, that gestures do not seem to have any statable meanings of their own apart from the linguistic expression. They are kinemorphs which would roughly correspond, in linguistics, to morphemes but they are really bound kinemorphs which cannot appear in isolation as a complete action with a statable meaning. "Just as we have built dictionaries of the 'meanings' of words," Birdwhistell states, "we have heretofore acted as though a gesture had a meaning in and of itself. Such preconceptions as these have interfered with our understanding of the communication process."37 He is also of the opinion that body motion does not seem to have an internal structure comparable to that of language. Koechlin, 38 on the other hand, posits the possibility of applying the methodological principles of the

³⁶R. L. Birdwhistell, <u>Introduction to Kinesics</u> (Louisville: University of Louisville, 1952), pp. 14-23.

^{37&}lt;sub>R. L. Birdwhistell, "Paralanguage 25 years after Sapir," <u>Lectures</u> in <u>Experimental Psychiatry</u> (Pittsburgh, 1961), p. 43.</sub>

³⁸ Koechlin, op. cit., p. 40.



linguist Martinet to the study of gestures. Monod, ³⁹ in a study of a corpus of gestures in two language courses, identified distinctive features of gestures which he called "mobilemes." These combine to form units of communication with statable meanings which he calls "gestemes." This author concludes:

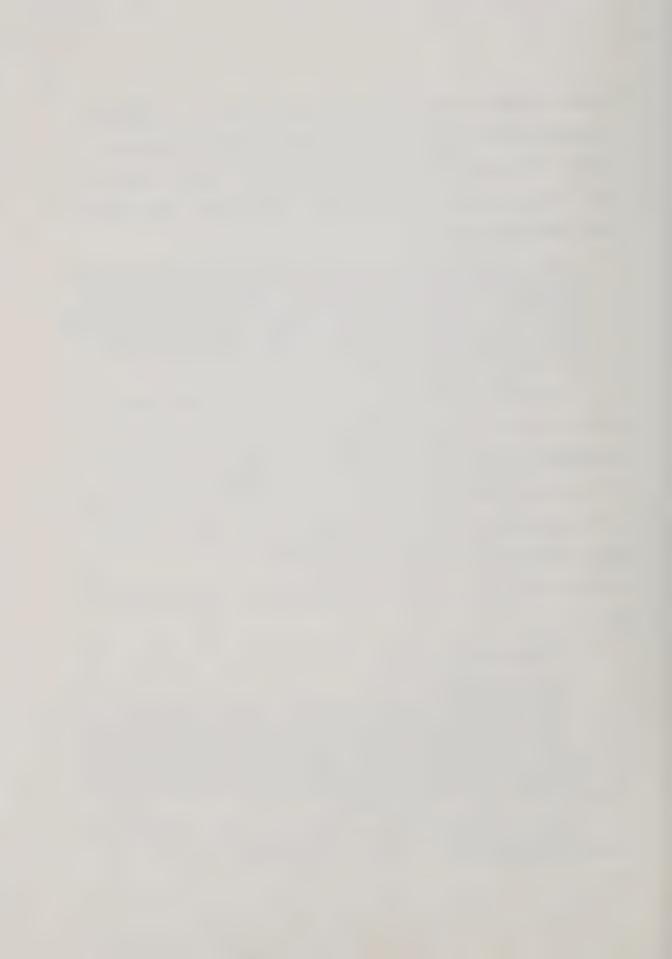
Ces "mobilèmes" peuvent être comparés aux phonèmes qui sont les unités de la deuxième articulation de la chaine parlée; comme ces derniers, on les isole les uns des autres par l'épreuve de la commutation. En retenant, avec Martinet, que cette double articulation est une preuve formelle de l'existence d'une sémie, nous pouvons avancer qu'il y a un "langage" gestuel utilisé par les membres d'une société afin de communiquer.40

A third source of contribution to the communication process is that of proxemics. Hall⁴¹ has called attention to the problems of intercultural misunderstanding in the use of space in communication and has developed a technical system for the identification and transcription of these phenomena. He defines proxemics as "the study of how man unconsciously structures microspace—the distance between men in the conduct of daily transactions, the organization of space in his houses

^{39&}lt;sub>Monod</sub>, op. cit., pp. 677-753.

[&]quot;These "mobilemes" may be compared to phonemes which are the units of the second articulation of the speech act; as is the case with the latter, the "mobilemes" are isolated one from the other by the process of commutation. . . Taking Martinet's position that this double articulation is a proof of the existence of a semiotic system, we may say that there is a "language" of gestures used by the members of a society in order to communicate." (Writer's translation.)

^{41&}lt;sub>E. T. Hall</sub>, "A System for the Notation of Proxemic Behavior," American Anthropologist, 65 (1963), pp. 1003-1026.



and buildings, and ultimately the layout of his towns."42 Fabbri43 contends, however, that Hall's term "proxemics" should be replaced by "proxetics" because the categories of his analysis are not based on distinctive features. They can only be used as preliminary models for the analysis of the spatial features of communicative behavior. Empirical Research in Communicating Emotional Meaning

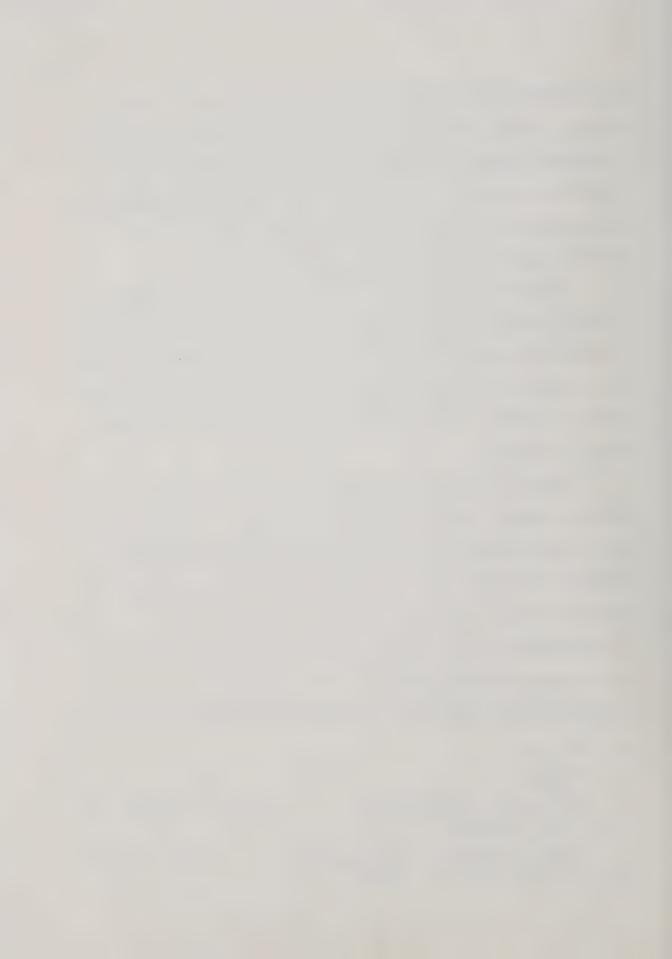
Literature on research in pictorial presentation of cues in conveying meaning is not extensive. Davitz44 and a team of colleagues. however, have conducted experiments in communicating emotional meaning in a variety of nonverbal media. Vocal communication was the principal focus of attention. They also studied facial, musical, and graphic modes of expression.

Some of the main conclusions of these researchers were: emotional meanings can be communicated in a variety of nonverbal media; (2) the accuracy with which emotional meanings were communicated far exceeded chance expectation; (3) there were marked individual differences in ability to understand emotional messages expressed in all modes of communication; (4) a person who is accurate in identifying the emotional meaning of vocal expressions also tends to be accurate in identifying facial expressions; (5) erroneous responses in identifica-

⁴² Ibid.

⁴³p. Fabbri, "Considerations sur la proxemique," Langages, 10 (juin, 1968), pp. 65-75.

⁴⁴ Joel R. Davitz (ed.), The Communication of Emotional Meaning (New York: McGraw-Hill, Inc., 1964).



tion tend to be similar to the intended meaning in terms of activity level. For example, two active emotions such as anger and joy are frequently mistaken for each other, but expressions of two unpleasant emotions such as anger and sadness, or two strong emotions such as love and joy are rarely confused for one another.

In summary, then, the review of research reveals that different theoretical positions may be taken with respect to a framework for research in communication. Although the principles of information theory have been used in linguistic investigations and have been proposed as a framework for research in conveying meaning with visuals, they have certain limitations. There are dangers in extrapolating from the definition of information to that of meaning as envisaged in this study. The position taken in this study agrees with that of Buyssens that a communication system involves the intention to communicate and with that of Monod that the compounds of elements of body motion have statable meanings.



CHAPTER III

THEORETICAL BASE

The previous chapter has dealt with a survey of the empirical research on interpreter factors in communicating meaning with pictures and a brief overview of the theoretical and descriptive studies on the communication process. The purpose of this chapter is to establish a framework for inquiry into visual semiotic factors in communicating meaning.

I. FRAMEWORK OF THE STUDY

Traditionally, language has been considered the main mode of communication. It has, consequently, been the object of extensive theoretical and empirical research. Structural linguists, however, have generally explored language as a purely formal system. Their main concern has not been with meaning but with rules for concatenation of atomic elements such as phonemes into complex strings of morphemes, words, phrases, and sentences. Notwithstanding these limitations, the linguistic model will be used as a theoretical model for establishing a conceptual framework for inquiries in visual communication. Some of the insights of anthropological linguists, social psychologists, and information theorists will be used to modify the framework in order to adapt the model to investigations in visual communication.



Saussure and Buyssens hold the view that language is a system of signs and as such linguistics is only a part of semiotics, the general theory of signs. Morris makes a similar claim when he defines semiotics as:

• • • a general theory of signs in all their forms and manifestations whether in animals or men, whether normal or pathological, whether linguistic or nonlinguistic, whether personal or social. Semiotic is thus an interdisciplinary enterprise.

We may thus conceive of inquiries into visual communication as constituting a subfield of semiotics.

A recurrent theme in discussions of research strategy in linguistics is the distinction between language and verbal behavior. Greenberg comments upon this distinction as follows:

It is parallel to the contrast langue: parole (de Saussure), syntactics and semantics: pragmatics (Morris, Carnap), and code: message (information theorists). . . A complete knowledge of the language system, including the phonology, the semantics and the grammar cannot tell us a priori which of the indefinitely large number of possible sentences can be construed in accordance with the rules will actually be employed. This latter is verbal behavior.

This distinction is also an important one in semiotics. A sign

¹Ferdinand de Saussure, <u>Course in General Linguistics</u> (New York: The Philosophical Library, Inc., 1959), p. 16.

²Eric Buyssens, <u>La Communication et l'articulation linguistique</u> (Bruxelles: Presses Universitaires de Bruxelles, 1967), pp. 11-14.

³Charles Morris, Signification and Significance (Cambridge, Massachusetts: The M. I. T. Press, 1964), p. 1.

⁴J. H. Greenberg, "Concerning Inferences from Linguistic to Non-linguistic Data," <u>Psycholinguistics</u>, Sol Saporta, editor (New York: Holt, 1961), p. 473.



may be defined in terms of a system (la langue, semantics, and syntactics) or it may be defined in terms of its effect upon the interpreter (la parole, pragmatics). Saussure defines a sign as a two-sided psychological entity which unites, not a thing and a name but a concept and a sound-image. He proposes to retain the word "signe" to designate the whole and to replace concept and sound-image by "signifié" and "signifiant" respectively. The relationship between "signifiant" and "signifié" is an arbitrary, conventional relationship. Saussure, thus, defines the sign in terms of a particular system. Morris, on the other hand, in his definition of a sign, takes a pragmatic point of view. For him, a given entity is a sign only by virtue of its capacity to induce, in an interpreter, a disposition to respond in certain ways toward some kind of object or state of affairs. The resultant disposition to respond is the interpretant, and the state of affairs toward which the disposition is oriented is the signification.

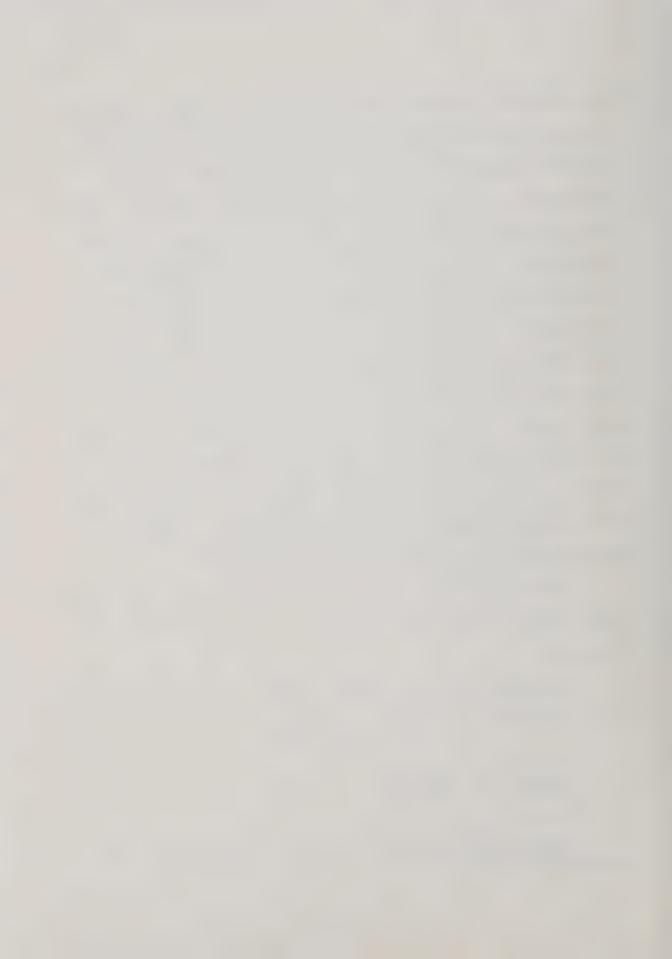
In an empirical study, in order to avoid prejudging the nature of a sign, Morris' definition of a sign in terms of the interpreter will be adopted.

Rommetveit, however, makes one important reservation with regard to the "disposition to respond". According to him, an assumption that

⁵Saussure, op. cit., pp. 66-68.

^{6&}lt;sub>Morris</sub>, op. cit., p. 2.

⁷Ragnar Rommetveit, <u>Mords</u>, <u>Meanings</u>, <u>and Messages</u> (New York: Academic Press, 1968), p. 11.



all kinds of signs, e.g. smoke from a fire, clenched fist, and the word "Fire!", all encompass a disposition to respond will prejudge the nature of the interpretant. Whether the processing of these different types of signs differs in kind or only in complexity are issues to be left open for subsequent theoretical and empirical enquiries.

With this reservation in mind, we may describe a partial semiotic process as including a sign, an interpreter, and a signification. We may also adopt Morris' definition of a communication system as a set of signs linked together by syntactic, semantic and pragmatic rules.

This subdivision of research on language into syntactics, semantics, and pragmatics, as Rommetveit⁸ cautions, is probably neither exhaustive nor unequivocal in the sense that we can trisect the whole field into entirely independent and mutually exclusive areas of research.

In this study, the syntactic and semantic rules will be considered purely as descriptive rules. The semantic rules are rules which explicate or describe the intended significations. If we assume that the system has been invented by a group of people for conveying meaning, the semantic analysis will consist in finding out which meanings or significations were intended when certain iconic elements or categories of elements were used. The syntactic rules of this system of communication will be explored by observing which signs, entities, or iconic elements were used to convey a meaning. The syntactic descriptive rules will also consist in categorizing these signs on the basis of their

⁸ Rommetveit, op. cit., p. 14.



nature and mode of signifying. Chomsky and Miller⁹ adopt the same point of view when they maintain that ". . .identifying an observed acoustic event as such-and-such a particular phonetic sequence is, in part, a matter of determining its syntactic structure".

Pragmatic rules, on the other hand, will be assessed by observing what happens when subjects are faced with certain types of signs and sign compounds, and with certain categories of intended meanings. Pragmatic rules are thus rules of relationship between syntactic and semantic categories and efficiency of message transmission.

In summary, then, a system of communication may be conceived as essentially consisting of syntactic categories of signs and semantic categories of meanings. The information from the subjects' responses to these syntactic and semantic categories may be used as evidence by which the effectiveness and inherent properties of the system may be explored.

There are, however, other design features of a communicative system which must be examined.

Design Features of a Communication System

Under this rubric, the following topics will be discussed:

- (1) medium, content, and message, (2) the process of encoding,
- (3) the unit of communication, and (4) the context.

⁹N. Chomsky and G. A. Miller, "Introduction to the Formal Analysis of Natural Languages," <u>Handbook of Mathematical Psychology</u>, D. R. Luce, R. R. Bush, and E. Galanter, editors (New York: Wiley, 1963), p. 318.



Medium, content and message. Any communication process will comprise two separate and distinctive phases: the message has to be sent and received. The necessary elements of that process are: first, an intended message; second, an act of encoding; finally, an act of decoding. Successful transmission may be assessed by comparing received and intended messages.

Rommetveit¹⁰ depicts a complete communicative process as in

Figure 1. In the discussion on the medium, the content, and the message,

the writer has drawn heavily upon Rommetveit's ideas.

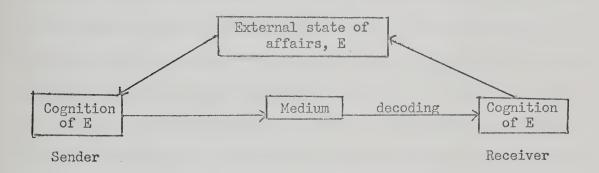


FIGURE 1
A COMMUNICATIVE ACT

In this representation of a communicative process no slot has been provided for the message. One may, for instance, put a chair in front of a door which he has just finished painting or otherwise place the written words "Wet Paint". The medium, in the first instance, may be the location of the chair relative to the door and in the second

^{10&}lt;sub>Rommetveit</sub>, op. cit., p. 38.



instance the written words "Wet Paint". The content may be said to be a belief in or a cognition of the particular state of affairs, that the paint is wet.

Neither the medium nor the content of the communicative act, however, constitutes the message. The medium can not be said to constitute the message. A visitor who is not familiar with the room may attribute the location of the chair to some other reason or simply fail to reflect upon it. The chair will thus serve its communicative purpose only insofar as it brings to mind the intention underlying the act of putting it there. The words "Wet Paint", on the other hand, appear to portray the content of the message in a somewhat more direct manner. In this instance, however, the prerequisites for communication are the ability to read and some mastery of the English language. The medium is, thus, in either case linked to the message by the processes of encoding and decoding and will not convey the message at all unless sender and receiver adopt the same code. On the other hand, the content, i.e. a belief in or a cognition of a state of affairs, can not be said to constitute the message. My belief may be false and the sign "Wet Paint" will make the visitor behave toward the door as if it had been recently painted. Furthermore, a shared belief or cognition of state of affairs can be established in a variety of ways other than by transmission of messages.

A sent message, then, presupposes both content and medium and may hence be conceived as a linkage of the two by a process of encoding. The received message will then, hopefully, be generated by some decoding operation performed upon that particular medium.



The message, therefore, must be broken down into sent, received, and transmitted message. The sent message may be conceived of as some cognitive representation encoded in a given iconic medium. Operationally, the sent message will be determined by an analysis of the content or the semantic categories of significations intended paralleled with an analysis of the medium, i.e. the iconic elements and syntactic categories used to convey the given cognitive representations.

The received message is some cognitive representation generated by the decoding of the medium by the subjects. In this study, the received messages will be determined by an analysis of the responses given by the subjects to the pictures presented for interpretation. The transmitted message will be assessed as the subjects' responses which are in agreement with the intended messages of the course.

Encoding. The sent message was defined as consisting of a medium and a content linked by a process of encoding. The process of encoding, then, can not be studied in vacuo; it must be examined in connection with both the content and the medium. The message may be said to portray a hierarchical structure. The medium is subordinate relative to the content; the latter is expressed by means of the former. The encoded cognition and the cognitive representation generated by decoding of the message belong to the superordinate level of the message proper. The medium belongs to the level of expressive tools. The writer will, therefore, proceed to a brief discussion of the categories of signification considered in this study. A more detailed analysis of the categories of content will be postponed.



An act of communication, according to Buyssens, 11 consists of establishing a social rapport. One communicates to inform an addressee, to question him, to greet him, or to give him an order. Modality, however, is only one part of the signification. It is combined with the object of the assertion, interrogation, or command. In the corpus of pictures analyzed, a further element of signification was observed. This element of signification concerns the form of expressing the content. The content must be interpreted either as a dialogue or as a description of events. The justification for including style as a category of signification rests on the presence of an iconic element of the medium to express an element of the content. The content of the sent message, then, is defined as the conjunction of three categories of significations: (1) style, (2) modality, and (3) core of the content.

These categories of the content are the types of cognitions of the sent message. Communication of the cognitions in this visual system is accomplished by a pictorial representation of entities and events of the external world. Bateson 12 defines codification as the substitution of one type of event for another such that the event substituted shall in some sense stand for the other. One of the conditions necessary for communication is that codification be systematic. Whatever entities or events of the external world are used to communicate certain internal

^{11&}lt;sub>Buyssens</sub>, op. cit., pp. 17-18.

¹² Gregory Bateson, "Information and Codification: A Philosophical Approach," Communication, Jurgen Ruesch and Gregory Bateson, editors (New York: W. W. Norton and Company, Inc., 1951), pp. 168-176.

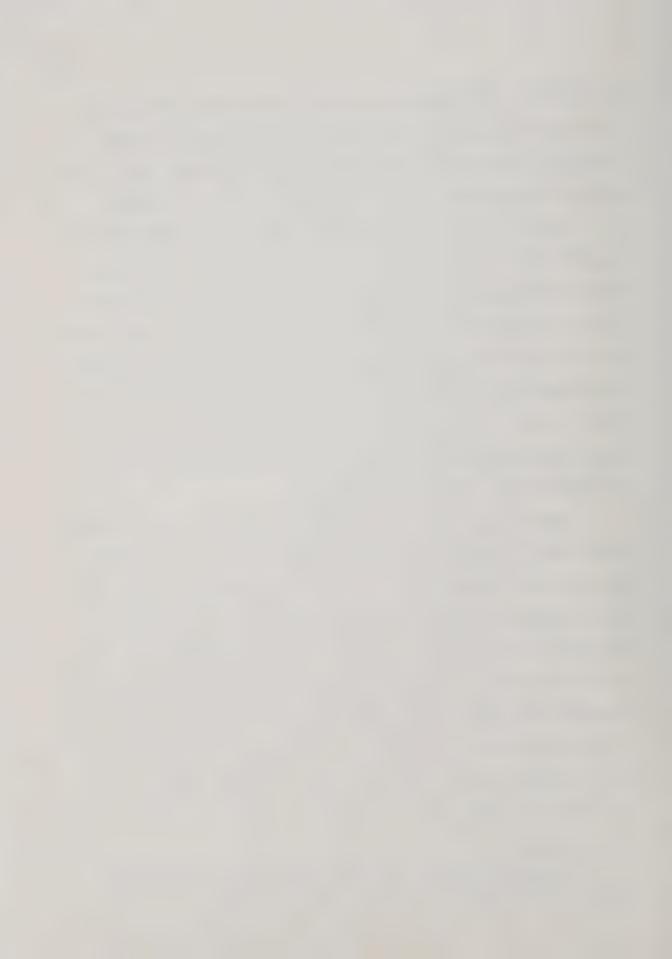


significations, there must be a systematic relationship between the internal and the external, otherwise communication is not possible. Elements of the medium, however, can be classified on the basis of their relationship with elements of the content in a number of respects.

Monod, 13 in his analysis of films, distinguishes three types of rapport between an iconic element and its signification. These are called "l'information", "les indices", and "les signes". "L'information" is tautological and it conveys its message directly. "Les indices" and "les signes" are the result of a rapport of presence of an "indicant" and a "signifiant" to express an absent "indicé" and "signifié". The rapport between "indicant" and "indicé", however, is the result of a cause-effect relationship while the rapport between "signifiant" and "signifié" is one established by convention.

Perhaps, as a result of the different techniques used in communicating meaning through film and by using still slides, it was found by the writer that the two characteristics of nature of the relationship between the iconic element and its signification, and of the mode of signifying, described above, do not combine in a symmetrical way. It was found necessary by the writer to analyze the relationship between the elements of the medium and the elements of the content (1) on the basis of the nature of this relationship, (2) the mode of signifying of the external entity in relation to the content, and (3) according to the structure of the code used. The relationship between an entity and its

¹³pierre A. R. Monod, "La langue et le geste." (Unpublished doctoral dissertation, Université de Strasbourg, 1969), pp. 38-44.



signification, from the point of view of the nature of this relationship, may be intrinsic or extrinsic. This terminology, adopted from Buyssens, 14 is considered as describing the nature of the relationship better than the terms motivated and arbitrary, which have been the subject of controversy in linguistics. An intrinsic relationship between an object or an event and its signification is one which is the result of resemblance or isomorphism between the two. An extrinsic relationship is one that results, not from an inherent resemblance, but from some extrinsic relationship such as causality or convention. The elements of the medium which show an intrinsic relationship to their referents are called representational elements; those which show an extrinsic relationship of causality to their significations are called indexical elements; those which show an extrinsic relationship based on convention are called conventional elements.

Let us suppose that the content of an intended message is "There is a table" and that the elements of the medium to communicate this signification consists of a boy, arm extended, pointing to a table. With respect to the nature of the relationship between the elements of the medium and their significations, the table is categorized as a representational element and the gesture, arm extended, is classified as a conventional element, i.e. the relationship is extrinsic and established by convention. If the boy's mouth is open to express "the content of this message is to be expressed as direct speech or conversa-

¹⁴Buyssens, op. cit., pp. 63-65.



tional style", this element is classified as an indexical element, i.e. based on an extrinsic relationship of cause and effect.

A second basis for classification is with respect to function or mode of signifying. Weinreich 15 distinguishes between (1) formators, (2) designators, and (3) mixed signs. Formators are sign-vehicles (events or objects that function as signs) which contain an implicit instruction for an operation such as negation, generalization, inference, and the like. Designators are sign-vehicles to which a semantic analysis may be applied. Mixed signs are sign-vehicles to which a semantic analysis may be applied and which also contain an implicit instruction for an operation.

In the pictures analyzed for this study, the characteristics of the elements with respect to nature and mode of signifying combine in an asymetrical fashion (see Figure 2). The indexical elements are always

Nature of Relationship

Indexical Representational Conventional

Forma + - +

tors

Designa- - + +

tors

Mixed - + +

signs

FIGURE 2

COMBINATION OF CHARACTERISTICS OF THE ELEMENTS OF THE MEDIUM ON THE BASIS OF THEIR NATURE AND MODE OF SIGNIFYING

Universals of Language, J. H. Greenberg, editor (Cambridge, Mass.: M.I.T. Press, 1963), pp. 116-125.

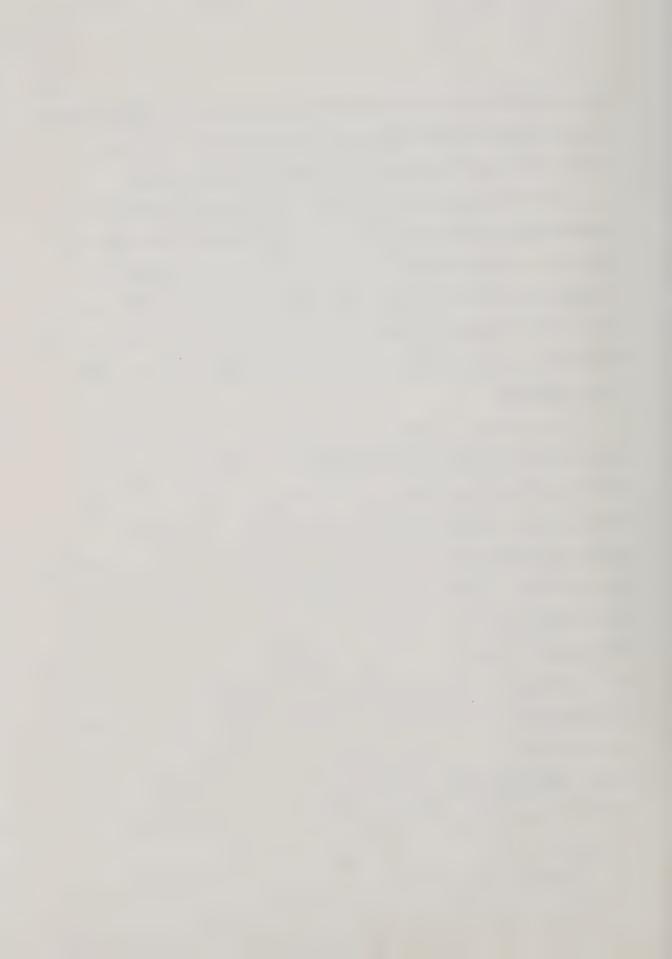


used as formators; the representational elements are not used as formators but may be used as either designators or mixed signs. Conventional elements may be used as formators, designators, or mixed signs.

The third basis of classification of elements of the medium with respect to the relationship between iconic elements and their signification is the structure of the code. Bateson, ¹⁶ in his discussion of varieties of codification, identifies three kinds which possibly occur in human mental processes. These are digital, analogic, and Gestalten. All three types of codification are exemplified by various sorts of electronic machinery.

In the Gestalten codification, the machine is doing something very closely comparable to the recognition of a Gestalten whereby a human being knows that a square is a square even though it may be of almost any size and presented at almost any angle. The essential characteristic of such machines is that they can identify formal relations between objects or events in the external world and classify groups of such events according to certain formal categories. A message denoting the presence or absence of an event which fits a certain formal category is transmitted. In human communication the ability of the brain to use the absence of a certain impulse in the interpretation of those impulses which do arrive seems to be a primary condition of interpretation. A piece of information makes a positive assertion and at the same time a denial of the opposite of that assertion. Many pieces of information

¹⁶ Bateson, loc. cit.



may be more complex than this, according to Bateson, ¹⁷ but always the elementary unit of information must contain at least this double aspect of asserting one truth and denying the opposite.

Prieto, ¹⁸ however, makes a distinction between two types of codes: (1) "codes a seme unique" which we will call single sign code, and (2) "codes a signifiant zero" which we will call zero sign code. In the single sign code the absence of an iconic element does not act as a sign, i.e. does not induce the interpreter to infer the opposite of the assertion of the presence of the iconic element. For instance, the presence of a white cane induces the interpreter to believe that the person is blind. The absence of the white cane, however, can not be said to induce the opposite belief, i.e. that the person is not blind. The second type of code, the zero element code, is one in which the absence of an iconic element constitutes a sign. An admiral's flag hoisted aboard a warship conveys the information that the ship carries an admiral. The absence of such a flag conveys the opposite information, absence of an admiral.

In the system of visual communication used in <u>V. I. F.</u>, the types of code just described seem to apply only to formators which are used to convey style and modality. The designators and mixed signs to express the core of the message do not seem to function in this manner.

¹⁷ Bateson, op. cit., p. 175.

¹⁸ Luis Prieto, Messages et signaux (Paris: Presses Universitaires de France, 1966), p. 45.



They are better described by what Barthes 19 calls denotative and connotative systems. The designators function denotatively while the mixed signs connotatively.

The unit of communication. A further design feature of communication systems is that they are composed of units of communication. The unit of communication in this study is the picture. Except for a few instances which will be indicated later, a picture corresponds to a predication. The intended message of the unit of communication, then, will consist of a predication composed of a style, a modality, and a core of content expressed by a compound of categories of iconic elements. The picture will be assumed to function within the context of other pictures as the word does in a linguistic context. The picture and the elements of the picture in isolation have a plurivocalness which eliminates the ambiguity by the context. It is assumed, therefore, that this will result in the elements of the picture being more effective in context.

Context. The notion that meaning is not something which is solely an inherent quality of words or grammatical items is a commonplace in modern linguistic theory. There is controversy, however, as to what constitutes the unit of analysis and what constitutes context. Some linguists consider the sentence as the unit of analysis. Others use the word while still further others consider the morpheme.

¹⁹ Roland Barthes, "Eléments de sémiologie," <u>Communications</u> (Centre d'études des communications de masse, No. 4. Paris: Editions du Seuil, 1964), pp. 130-132.



Martinet²⁰ makes a distinction between linguistic context which he calls formal context, expressing formal meaning and situational context (the events and things present when a bit of language is uttered), expressing situational meaning. Monod,²¹ in his study of films, distinguishes between intericonic and intraiconic contextual effect and intersequential and intrasequential effect. Contextual effect is that phenomenon which results from the interaction of iconic elements in a picture or in a sequence of pictures. Sequential effect is the phenomenon which results from the implications between pictures within one sequence or between sequences. In this study the distinction will not be made between contextual and sequential effect. The effectiveness of a category of iconic elements will be investigated in a picture in isolation and compared with that of a picture in a context of three pictures.

II. PURPOSE OF THE STUDY

This study attempted to establish a framework for research in visual communication in teaching a second language to beginning students. It does so by analyzing a sample of pictures from a semiotic point of view into semantic categories of intended meanings and syntactic categories of the medium to express these. Pictures are also analyzed for the characteristics of complexity and use of ideographemes.

²⁰ André Martinet, Eléments de linguistique générale (Paris: Armand Colin, 1967)

^{21&}lt;sub>Monod</sub>, op. cit., pp. 50-60.



Secondly, it attempted to investigate some of the factors involved in communicating meaning. By having a sample of subjects interpret these pictures, it is assumed that their responses will reflect the effect of the semantic categories of meaning upon interpretation and give some indication of the effectiveness of the categories of the medium to express these categories of meaning.

The pictures were interpreted in isolation and in context to find out whether the addition of context is a factor in visual communication. If either mode of presentation proves more effective than the other, this fact will have consequences both for the course writer and for the use of visuals in the classroom.

Information about the relative effect of semantic categories of meaning upon interpretation in either mode of presentation will give some indication about what meanings are most effectively communicated in isolation and in context. Some dimensions of meaning may have to be avoided in either case or communicated differently.

If the nature, mode of signifying and the coding of the syntactic categories of the medium are factors in conveying meaning, these factors should be taken into consideration when visuals are constructed and used in teaching.

If a high degree of coding is necessary to convey meaning, then, information about the effect of complexity of the picture is needed.

This study attempts to provide this information.

Finally, this study provides the course writer some information on the effect of the use of ideographemes in pictures.



CHAPTER IV

METHOD OF INVESTIGATION

An attempt was made in the preceding chapter to elaborate a framework for inquiry in visual communication. It was proposed that factors in visual communication can be explored within the framework of semiotics. It was postulated that the evidence obtained from the subjects' responses to syntactic categories of iconic elements and to semantic categories of content would reveal some of the factors involved.

This section describes the selection of pictures, the categories of the analysis, the selection of the subjects, the data gathering procedures, and the coding of the subject's responses. Then, it provides a list of hypotheses and concludes with limitations of the study.

I. SELECTION OF PICTURES

A sample of thirty pictures was selected from the "sketchs" of
Voix et Images de France. The "sketch" is an everyday situation that
establishes a setting, characterizes people, and presents the circumstances of a simple plot. The purpose of the "sketch" is to convey
meaning. The "mecanismes" also present a visual situation but their
purpose is primarily to offer a visual support for grammatical exercises
once the meaning has been conveyed. For this reason, the sample was
selected from the "sketchs".

Each lesson and each picture in a lesson were assigned a number.



Using a table of random numbers, the first number was used to select the lesson and the next to select the picture in the lesson. The three pictures selected to constitute the context were taken from the same "sketch" as the picture randomly selected. In most cases, they were not, however, the pictures immediately preceding or following the selected picture. The selection of the three pictures which constitute the most adequate context was validated by two judges, who had done extensive work in the interpretation of visuals.

II. CATEGORIES OF THE ANALYSIS: DEFINITIONS AND DESCRIPTION

In order to determine the effectiveness of the categories of iconic elements and the effect of the semantic categories of the content on interpretation, each picture was analyzed for these categories (Appendix A). Under each of the following headings, the semantic categories of the content are defined, followed by the syntactic categories of the medium intended to express them.

Style

Style is defined as the form of the expression of the core of the content. Two semantic categories of style are distinguished: conversational and narrative style.

Conversational style takes the form of a dialogue. The content of the intended message of picture one, for instance, is "May I light the candles?" This picture is classified as conversational. The content of the intended message of picture four is expressed as "Mrs. Thibaut leaves her apartment". On the dimension of style this picture



is classified as narrative.

The semantic categories of style are expressed by the use of one iconic element of the medium, i.e. mouth open. Since the interpretation of this iconic element involves a perception of the cause-effect linkage between sign and signification, it is classified as to nature of the relationship as an indexical element. With respect to mode of signifying it is a formator.

A picture intended to express conversational style may be marked or unmarked for that dimension. If the iconic element (mouth open) is present in the picture, it is classified as marked. If the iconic element is absent, the picture is classified as unmarked absent for the dimension of conversational style (U.A.). When a picture is intended to express narrative style, the absence of the iconic element (mouth open) is indicated as unmarked neutral (U.N.). The presence of this iconic element, when the content of the message is intended to be narrative, is categorized as an interference. This is the case for picture twenty-seven.

Modality

Modality is defined as the dimension of the content of the intended message which indicates the social rapport established.

Four categories of social rapport are considered: (1) requests, (2) social situation responses (S.S.R.), (3) questions, and (4) assertions.

Request. The category of request is a broad category including social rapports ranging from polite requests to orders and prohibitions.



Social Situation Responses. Social rapports of greeting, thanking, and excusing oneself are classified as social situation responses (S.S.R.). Social situation responses are a special case in that they do not take the form of a predication. The only possible dimensions of classification for these are style and modality.

Question. Questions are limited to solicitations of information. The intended message of picture one, for instance, takes the linguistic form of a question: "May I light the candles?" It is classified as a request, however, since the social rapport established is one of asking permission.

Assertion. An assertion is defined as the social rapport established in giving information.

With respect to the nature of the relationship between the medium and the content, the iconic elements used to convey modality are classified as indexical and conventional; on the basis of mode of signifying they are all formators. The conventional formators are sub-divided into simple, conventional and graphic on the basis of degree of explicitness of the formator. It is assumed, for instance, that there is a difference in the degree of explicitness or implicitness between the use of a question mark and the use of a conventional element raised eyebrows, to express the social rapport of questioning.

On the basis of the coding system the category of assertion is categorized as the unmarked neutral category (U.N.). All others are classified as either marked or unmarked absent (U.A.).

In picture sixteen the iconic element, index pressing telephone



button, is intended to convey the meaning, beginning of conversation or greeting. This element, however, is not understood in the socio-cultural milieu of the subjects and is classified as interference.

Since the intended messages, which are classified as narrative on the basis of style, involve a description of objects or events, they are considered as excluding modality.

Core of the Message.

The core of the message is defined as the substance of a predication encoded in an iconic medium. It consists, then, of a content and a medium of expression.

Since the core of the content of the message takes the form of a predication it consists of "something talked about and something said about that subject of discourse," using Sapir's²² definition. These two elements are called argument and relation respectively. In the proposition "Aristotle was a Greek", Reichenbach²³ distinguishes between two elements of different logical nature, i.e. a thing and a property. The proposition tells us which thing has this property; in order to do so it contains the phrase "was a" which indicates that the thing-property relation holds between the objects represented by the words "Aristotle" and "Greek". The argument is defined as the thing variable expressed in the predication. The relation variable is defined as the property or

^{22&}lt;sub>E. Sapir, Language: An Introduction to the Study of Speech</sub> (New York: Harcourt, Brace & World, 1939)

^{23&}lt;sub>Hans</sub> Reichenbach, <u>Elements of Symbolic Logic</u> (New York: The Macmillan Company, 1947), p. 80.



situational function of the predication.

On the basis of the relationship of the argument and the relation to the context, they are classified as topic or comment. In the predication "Tom is a thief", whether "Tom" or "thief" is the topic or the comment must be decided on the basis of what is already known or presupposed and what is not known. If the theft is already known to the receiver of the message who is curious to know who the thief is, "Tom" becomes the comment. If only the name "Tom" has been mentioned, on the other hand, he may ask "Who is Tom?" Then "thief" becomes the comment.

The topic, then, is defined as that element of the predication which is already known or which has been established by the context.

The comment is the element of the predication which is introduced as a novel element.

In the few instances where the topic has not been established by the context, the subject of the predication is arbitrarily assigned as the topic and the predicate as the comment.

The argument or the relation is classified as the topic or the comment on the basis of whether the argument or relation is the subject of discourse or the novel element added.

When the topic or the comment include both a relation and an argument the relation only is considered as the topic or the comment.

In picture one, for instance, the content of the intended message is

"May I light the canoles?" The topic is "candles" since the established subject of discourse is a birthday party. The comment or novel element is "May I light?" The comment includes an argument "I" and a relation



"light". In the latter instance, the relation alone is considered as the comment and is underlined in the analysis (Appendix A).

The relations are further analyzed on the basis of clustering or configuration of their semantic features. Weinreich calls an unordered set of features a cluster and an ordered set a configuration:

Suppose the meaning of daughter is analyzed into the components 'female' and 'offspring'. Anyone who is a daughter is both female and an offspring; we represent the features 'female' and 'offspring' as a cluster. But suppose the meaning of chair is represented in terms of features 'furniture' and 'sitting'. Whatever is a chair is 'furniture' but is not 'sitting', it is 'to be sat on'. We would represent this fact by saying that the feature 'furniture' and 'sitting' form a configuration. We will use parentheses to symbolize both types of sets, but the symbols for features in a cluster will be separated by arrows. Letting a and b be semantic features, we introduce the following definitions:

Cluster: (a, b) = (b, a)

Configuration: $(a \rightarrow b) \neq (b \rightarrow a)^{24}$

Weinreich²⁵ goes on to state that the meaning of some verbs may accordingly be represented as a configuration of two elements; the first is a feature meaning performance or action, whereas the other element represents the semantic residue. Transitive verbs are described as forming a configuration. Intransitive verbs such as "stand", on the other hand, do not seem to contain any but the cluster features of the adjectival predicate (be) erect.

Trends in Linguistics, T. A. Sebeok, editor (The Hague: Mouton, 1966), pp. 420-421.

²⁵ Ibid., pp. 425-426.



In this study, transitive verbs are categorized as configurations, while passive verbs, adjectival and nominal predicates are classified as forming clusters.

To express the content of the core of the message, certain syntactic categories of the medium are used. On the basis of the nature of the relationship between the medium and the content, the elements of the medium are categorized as either representational or conventional. With respect to mode of signifying they are classified as either designators or mixed signs.

The representational elements are divided into representations of objects, symbolized as R1, representations of actions, symbolized as R2, and representations of conditions, symbolized as R3. The only iconic elements used to convey the relations are R2, R3, and conventional elements. If they are used as designators, i.e. to be interpreted literally, they are symbolized as L1. If they are used as mixed signs, i.e. as elements consisting of a semantic content and an implicit instruction for an operation such as inference, abstraction and the like, they are classified as L2. The pictures selected for the study are analyzed for two other characteristics, complexity and use of ideographemes.

Complexity

Complexity is defined in terms of the number of iconic elements contained in the picture:

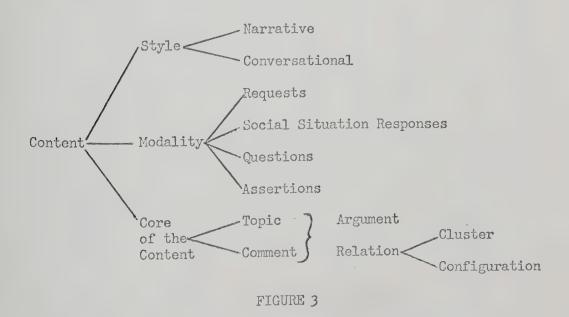
- C1 refers to pictures containing six or fewer elements;
- C2 refers to pictures containing seven, eight, or nine elements;
- C3 refers to pictures containing ten or more elements.



Ideographemes

There is some controversy about the effect of pictorial or ideographemic representation in communicating meaning. The controversy
revolves around the problem of using pictorial reality to convey meaning
as opposed to making use of ideographemes or balloons to isolate a
referent or to represent some aspect of the core of the message. On
the basis of this distinction, the pictures are categorized as pictorial
or ideographemic.

The semantic categories of the intended message are summarized in Figure 3. The thirty pictures were analyzed on all these dimensions; only some of them, however, are formally investigated. These will be mentioned in the limitations of the study. Figure 4 presents an outline of the main categories of the content of the sent message and the categories of the medium used to express them.



SUMMARY OF THE SEMANTIC CATEGORIES OF THE CONTENT



			anthon the distance of the distance of the second purple as the second control of the se		
SENT MESSAGE	MEDIUM	Coding System	Single sign code Zero sign code	Denotative system	Connotative system
		Nature of Relationship	Indexical Conventional	Representational L1 Conventional L1	Representational L2 Conventional L2
		Mode of Signifying	Formators	Designators	Mixed signs
	CONTENT	Style		Core of the Content	

FIGURE 4

OUTLINE OF THE MAIN CATEGORIES OF THE SENT MESSAGE AND THE MAIN CATEGORIES OF THE MEDIUM



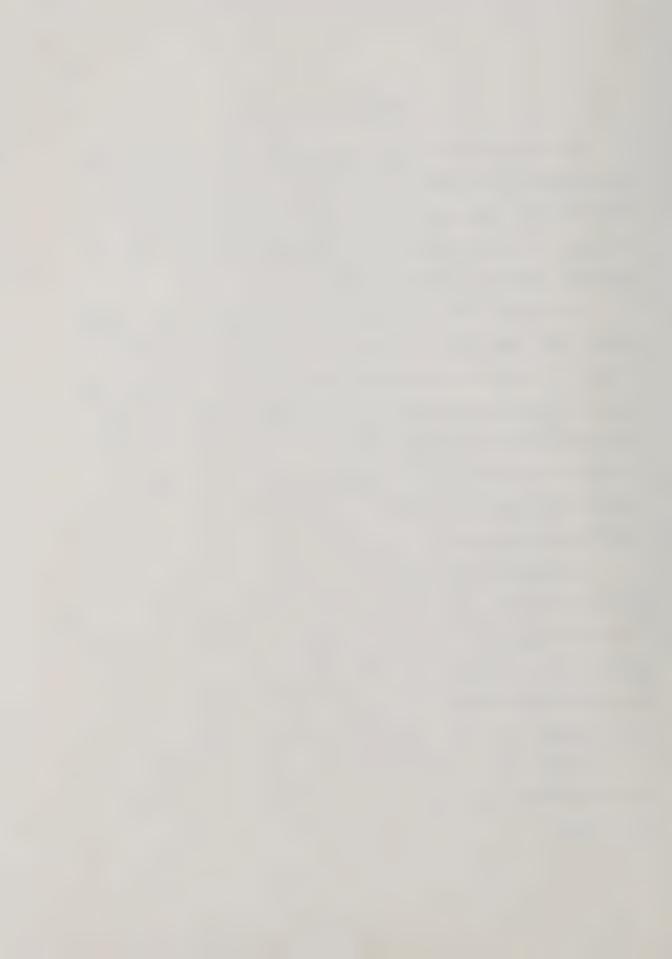
III. SELECTION OF THE SUBJECTS

The subjects were selected from the grade seven students of the Winnipeg School Division No. 1. To avoid a bias in the results five of the schools of the division were selected for their lack of obvious imbalance in a social, ethnic, and socio-economic direction. Of this number two schools were chosen at random.

Both schools have seven grade seven classes whose students studied French. Each class and each student in each class was assigned a number. A sample of twenty-five students was obtained by random selection. The sample of twenty-five was divided into two groups. Group A1 of school A consisted of thirteen students assigned at random to that group. Group A2 consisted of twelve students assigned in the same way. The same procedure was followed in school B except that group B1 consisted of twelve students and group B2 of thirteen students.

Although precautions were taken to ensure that the subjects had not been exposed to a course using visual material to communicate meaning, one of the responses of two subjects indicated that they were familiar with <u>V. I. F.</u> An inspection of their responses, however, showed no evident difference between their responses and the responses of the other subjects. They were, therefore, kept in the sample.

No information was obtained about age, sex, intelligence, and previous knowledge of French because these factors were not objects of the study.



IV. DATA GATHERING PROCEDURES

The research instrument consists of thirty pictures shown in isolation and in context to a sample of fifty subjects from two schools. The arrangement of presentation is indicated in Figure 5.

A1 1-13 Pictures 1-15 in Isolation Pictures 16-30 in Context	B1 1-12 Pictures 1-15 in Isolation Pictures 16-30 in Context
A2 1-12 Pictures 16-30 in Isolation Pictures 1-15 in Context	B2 1-13 Pictures 16-30 in Isolation Pictures 1-15 in Context

FIGURE 5

ARRANGEMENT OF PRESENTATION OF PICTURES IN ISOLATION AND IN CONTEXT TO THE SUBJECTS OF GROUPS A1, A2, B1, AND B2

The subjects in groups A1 and B1 saw pictures one to fifteen in isolation and pictures sixteen to thirty in context. The subjects in groups A2 and B2 saw pictures sixteen to thirty in isolation and pictures one to fifteen in context.

The students responded by writing their interpretations in English on answer sheets provided by the investigator. The subjects were seated so that they would have a good view of the screen but spaced from one another so that they could not copy.

The instructions were given on tape. The time allowed for viewing the pictures and for writing the interpretations were also regulated on tape.

For interpreting pictures in isolation, the subjects were allowed ten seconds for viewing the picture and twenty seconds for writing their interpretation. In context they first viewed each picture of the context



and the picture selected for study for four seconds. The sequence of pictures was shown a second time and the students were given six seconds for viewing and twenty seconds for writing their interpretation of each picture. The time of ten seconds, allowed for viewing the pictures in isolation was more than ample, most students writing before that period of time elapsed. The six seconds allowed for viewing the picture in context was also found sufficient.

In previous experimentation with the instrument, the length of time allowed for writing the interpretations was found suitable. In the study it was found that students had sufficient time to write their answers.

The slides, duplicated from the filmstrips of <u>Voix et Images de</u>

<u>France</u>, were shown by automatic Kodak Carousel 850 with auto focus. The size of the projection on screen was the same for all groups.

In the instructions to the subjects (Appendix B), care was taken not to influence the subjects' interpretation. To this effect, the subjects' task was indicated by means of examples. Examples, expressing different categories of meaning, were interpreted for the subjects in the course of explaining the procedures followed. The examples included narrative and conversational style. With respect to modality they expressed question, request, and assertion.

V. CODING OF THE DATA

All the subjects' interpretations were corrected three times by the investigator. The responses and the coding of the responses appear



in Appendix C. They were coded according to correct identification of style, modality, topic, and comment. If the subject's response indicated that he had identified the dimension in question, his response was coded as 1 for that dimension and as 0 otherwise.

Each of the four dimensions of the content, i.e. style, modality, topic, and comment, were coded separately. For uniformity of correction the coding of the style of a certain picture was done for all responses to pictures in isolation, then for all responses to pictures in context. The same procedures were followed for the other pictures and dimensions of the content.

Whenever the subject's response did not indicate clearly whether he had identified a certain category of the content, especially for pictures in isolation, the investigator had the interpretation of those responses verified by two judges, one a graduate student doing research in visuals and another graduate student. In a few cases where the doubt could not be resolved, the subject was given the benefit of the doubt.

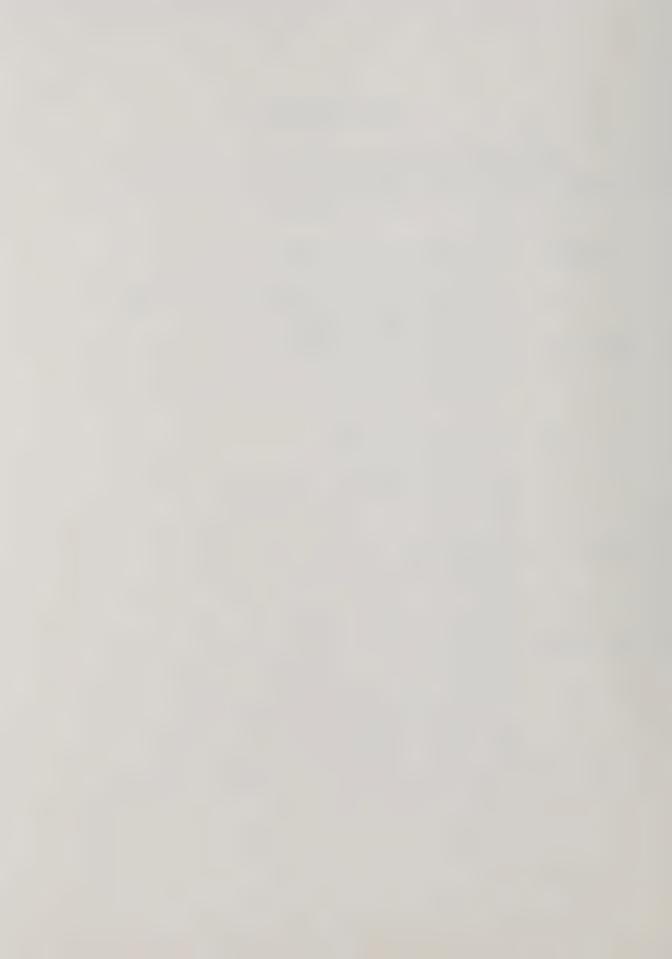
Simple enumerations and blank responses were coded as 0 on all dimensions. Titles, however, were coded as zero for style and modality, but the correctly identified elements of the topic and comment were recorded as being correct. Substitutions of nouns or pronouns for proper names were accepted as correct responses. "The boy is in the attic" or "He is in the attic" were both accepted for the intended message "Paul is in the attic". Responses expressed by such formulas as "The lady asks. . . " were recorded as 0 for style. The modality was marked as correct or incorrect in relation to the intended modality. All other categories were coded separately in the same way.



VI. THE HYPOTHESES

The following hypotheses are proposed to investigate factors in conveying meaning (in this study the experimental unit was the picture and not the student):

- Hypothesis 1 For pictures in isolation and in context, there are no significant differences between semantic categories of style in interpreting style.
- Hypothesis 2 For pictures in isolation and in context, there are no significant differences between syntactic categories of style in conveying style.
- Hypothesis 3 For pictures in isolation and in context, there are no significant differences between semantic categories of modality and the responses to modality.
- Hypothesis 4 For pictures in isolation and in context, there are no significant differences between syntactic categories of modality in conveying modality.
- Hypothesis 5 For pictures in isolation and in context, there are no significant differences between the semantic categories of clustering and configuration of the relations on the interpretation of the <u>relations</u> of the message.
- Hypothesis 6 For pictures in isolation and in context, there are no significant differences between the syntactic categories of the relations in conveying the relations of the message.



- Hypothesis 7 For pictures in isolation and in context, there are no significant differences between the syntactic categories

 L1 and L2 of the relations in conveying the relations of the message.
- Hypothesis 8 For pictures in isolation and in context, there are no significant differences between the levels of complexity in conveying the total message.
- Hypothesis 9 For pictures in isolation and in context, there are no significant differences between ideographemic and non-ideographemic pictures in conveying the total message.

VII. DELIMITATIONS OF THE STUDY

- 1. The following factors in communicating meaning are not considered in this study: (a) directionality of message, (b) density of message, (c) effect of socio-cultural elements, (d) effect of elements causing interference, (e) characteristics of types of contexts and their effects.
- 2. The hypotheses are not offered as an exhaustive list of the factors analyzed in the pictures. In the content of the message, only the main constituents of the topic and comment are considered. The delimitations of time, place, degree, manner, self-reference, quality, are not specifically studied unless they are the constituent elements of the topic or the comment.
- 3. The French oral stimulus accompanying each picture is not given.



- 4. The sample of subjects is taken from a population of grade seven students. The findings may, therefore, have only limited applications for eliciting meaning at other grade levels.
- 5. Since the use of pictures for this experiment is different from the use of pictures in teaching <u>Voix et Images de France</u>, the findings will apply only to general factors of conveying meaning with cartoon pictures expressing situational meaning.



CHAPTER V

DATA, THEIR ANALYSES, AND RESULTS

The data for the nine hypotheses are presented in the following four tables: Table I, Table VII, Table XIV, and Table XXII. In each table column one indicates the number of the picture; the next two columns present the criterion, i.e. the number of correct responses elicited by the pictures in isolation and in context; the next columns indicate the categories to which each picture in question belongs.

To test the hypotheses of no significant relationship between the categories and the treatment, a two-factor analysis of variance with repeated measures is used. The categories constitute the levels of factor A and the two observations made on each picture, one in isolation and the other in context, constitute the levels of factor B.

Two-factor Analysis of Variance with Repeated Measures on One Factor

A two-factor analysis with repeated measures on one factor is considered to be appropriate for the following reasons:

- 1. It provides a statistical control over individual differences between treatments. Treatment effects for a given picture are measured relative to the average response made to the picture on the two-treatments. The separation of individual error from treatment effects and experimental error increases the sensitivity of the experiment.
- 2. An advantage of the repeated measures design is in terms of economy of subjects. By using each picture as its own control, it is possible to work with a smaller sample and still obtain meaningful results.

¹B. J. Winer, <u>Statistical Principles in Experimental Design</u> (New York: McGraw-Hill, 1962), pp. 105-124; 298-306.



3. This design offers the possibility of spreading the sequence effects on all treatments. In this study, however, because of the possibility that the interpretation of pictures in context might have an influence upon the interpretation of pictures in isolation, the order of presentation was not randomized.

The selection of this design is based on the following assumptions:

- 1. The subjects (in this case the pictures) are a random sample taken from a population.
- 2. The variance is the same for all treatments since the same subjects are observed under all treatments.
- 3. The population variances and covariances are homogenous. If the homogeneity assumptions are not met the differences will appear to be more significant than they are. The homogeneity of variance will be tested by using χ^2 . Caution in the interpretation of results arising when the homogeneity assumption is not met will, therefore, be observed. The homogeneity of variance tables will be reported in Appendix D. Style

Two hypotheses are related to style. They deal with the relationship between the categories of style and mode of presentation. In these two hypotheses, the criterion is the number of correct responses to style. Pictures 16 and 27 were removed from the sample because of the presence of interference. Picture 16 causes interference because of a socio-cultural element present in the picture (pressing button to indicate the beginning of a conversation, i.e. greeting). Picture 27 causes interference because of the presence of the indexical element, mouth open, which in this case is meant to indicate action of shaving but which may be interpreted as an indication of conversational style.



In testing this hypothesis and subsequent hypotheses, the object of the study is to isolate factors related to the effectiveness of pictures in conveying meaning. Since the effect of the presence of interference in a picture is not one of the factors of this study and may lead to a wrong interpretation of the results, those pictures in which there is an obvious presence of interference were removed.

The first hypothesis serves to investigate the relationship between the semantic categories of style and mode of presentation on the interpretation of style.

Hypothesis 1 - For pictures in isolation and in context, there are no significant differences between the semantic categories of style in interpreting style.

Table I presents the number of correct responses to style in isolation and in context and the categories of factor A to which each picture belongs. The levels of factor A for hypothesis 1 are narrative and conversational style.

A summary of the results of the analysis of variance appears in Table II. As Table II shows there is a significant difference in responses in the interpretation of the two categories of style. This difference is significant at the .01 level. Null hypothesis 1 is, therefore, rejected. An inspection of the means in Table III shows that conversational style is more readily interpreted correctly than narrative style.

The results of Table II also indicate that the mode of presentation



TABLE I

RESPONSES TO STYLE CLASSIFIED BY PICTURE, MODE OF PRESENTATION, SYNTACTIC AND SEMANTIC CATEGORIES

Picture	Isolation	Context	Semantic	Syntactic
D-Tarlot Challichel Bellege Carles allowed in march of indepty consistency and appropriate annual action of the constraints of	Persistant de la company de la compa		Categories	Categories
1	16	23	Conv.	I.
	22	22	Conv.	ī.
3	18	10	Conv.	ī.
4	7	7	Nar.	U.N.
5	16	22	Conv.	I.
6	24	22	Conv.	I.
7	11	20	Conv.	U.A.
2 3 4 5 6 7 8	7	4	Nar.	U.N.
9	16	21	Conv.	I.
10	4	11	Nar.	U.N.
11	23	23	Conv.	I.
12	20	23	Conv.	I.
13	22	22	Conv.	I.
14	24	21	Conv.	U.A.
15	24	23	Conv.	I.
16	anna tanb		Conv.	Interference
17	10	20	Conv.	U.A.
18	20	17	Conv.	I.
19	25	21	Conv.	I.
20	20	18	Conv.	I.
21	24	22	Conv.	I.
22	24	21	Conv.	U.A.
23	21	24	Conv.	U.A.
24	23	21	Conv.	I.
25	23	23	Conv.	I.
26	16	18	Conv.	U.A.
27	an ma	and street	Nar.	Interference
28	23	21	Conv.	U.A.
29	22	22	Conv.	I.
30	15	17	Conv.	I.



TABLE II

ANALYSIS OF VARIANCE OF SEMANTIC CATEGORIES OF STYLE AND MODE OF PRESENTATION

Source of Variation	DF	MS	F
Bet. Categories (A)	1	1037.039	79.298**
Sub. within groups	26	13.078	
Bet. modes of presentation (B)	1	7.292	0.919
Interaction (A X B)	1	0.148	0.019
BX sub. within groups	26	7.936	

TABLE III

MEANS OF SEMANTIC CATEGORIES OF STYLE
IN ISOLATION AND IN CONTEXT

Categories	Isolation	Context
Narrative	6.000	7.333
Conversational	20.080	21.080

^{**}Significant at the .01 level.



factor was not significantly different. Also the interaction between presentation mode and the semantic categories of style was not significant. It can, thus, be inferred that the mode of presentation has the same effect on the two categories of style.

The next hypothesis deals with the difference between the syntactic categories of style in isolation and in context in eliciting correct responses to style.

Hypothesis 2 - For pictures in isolation and in context, there are no significant differences between the syntactic categories of style in conveying style.

The dependent variable and the syntactic categories of style appear in Table I page 67. The analysis of variance consists of three levels of factor A (syntactic categories of style) and two levels of factor B (mode of presentation). The three levels of factor A are (1) indexical elements (I), (2) unmarked neutral elements (U.N.), and (3) unmarked absent elements (U.A.). A summary of the results of the analysis of variance is reported in Table IV.

As Table IV shows, the syntactic categories of style elicit mean responses differing at the .01 level. On the basis of these results, null hypothesis 2 of no significant differences between syntactic categories is rejected. The syntactic categories seem to be a contributing factor in conveying style. The difference between the means of the three categories in Table V was submitted to Scheffe's Multiple Comparison of Means to determine which means were significantly differ-

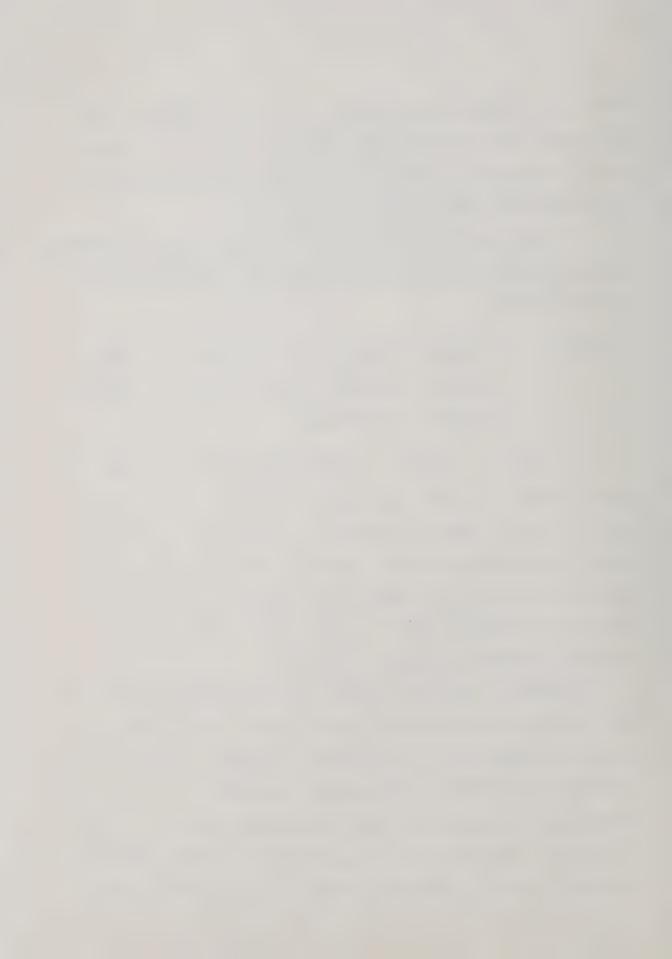


TABLE IV

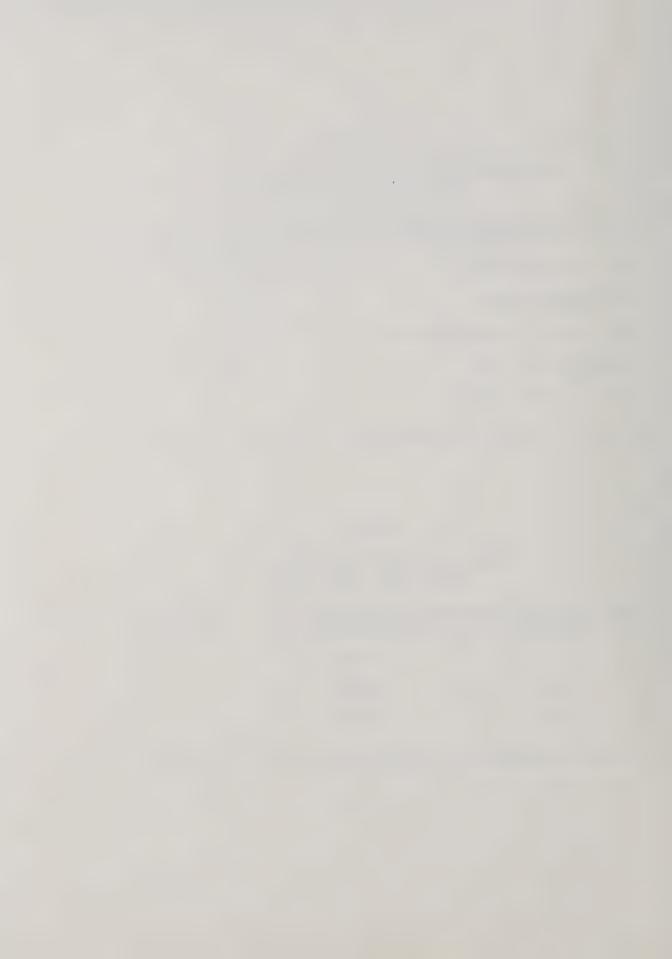
ANALYSIS OF VARIANCE OF SYNTACTIC CATEGORIES OF STYLE AND MODE OF PRESENTATION

Source of Variation	DF	MS	F
Bet. categories (A)	2	701.734	54.782**
Sub. within groups	25	12.810	
Bet. modes of presentation (B)	1	15.952	2.011
Interaction (A X B)	2	2.252	0.284
BX sub. within groups	25	7.932	

TABLE V

MEANS OF SYNTACTIC CATEGORIES OF STYLE
IN ISOLATION AND IN CONTEXT

Categories	Isolation	Context	
I.	20.722	21.222	
U.A.	18.429	20.714	
U.N.	6.000	7.333	
0 441 *			



ent from each other. The means for indexical elements and U.A. elements are different from U.N. elements in isolation and in context at the .01 level, as shown in Table VI. From these results and from an inspection of the means in Table V, it appears that the absence of the indexical element to indicate narrative style does not, in most cases, elicit

TABLE VI
PROBABILITY MATRIX FOR SCHEFFE'S MULTIPLE COMPARISON
OF MEANS OF SYNTACTIC CATEGORIES OF STYLE

Categories		U.A.	U.N.
	<u>IN IS</u>	OLATION .	
I.	1.000	0.454	0.000**
U.A.		1.000	0.000**
U.N.			1.000
	IN C	ONTEXT	
I.	1.000	0.864	0.000**
U.A.		1.000	0.000**
U.N.			1.000

narrative style. The syntactic categories of style, therefore, would appear to function as a single sign code. On the other hand, the means for indexical and U.A. elements to elicit conversational style are not significantly different from each other. Although care was taken in the instructions to the students not to influence them to interpret



the pictures either conversationally or narratively, these results seem to show a tendency of the subjects to interpret pictures as dialogue.

With respect to the difference in means associated with mode of presentation, the results, presented in Table IV, show that they are not significant. On the basis of these results hypothesis 2 is not rejected with respect to factor B. Mode of presentation does not appear to be related to the conveying of style.

The interaction between syntactic categories and mode of presentation in Table IV is not significant. It appears that the subjects have an equal tendency to interpret pictures as dialogue in either mode of presentation.

Modality

The next two hypotheses pertain to the factors in communicating modality. The first one considers the effect of the semantic categories of modality on interpretation. The second deals with the effectiveness of the syntactic categories of the medium to communicate modality.

The response to modality for the thirty pictures presented in isolation and in context appear in Table VII. Pictures 16 and 27 were removed from the sample because of presence of interference. Pictures 4, 8, and 10 do not express a modality and were, therefore, also removed from the sample.

Hypothesis 3 - For pictures in isolation and in context, there are

no significant differences between the semantic categories

of modality and the responses to modality.



TABLE VII

RESPONSES TO MODALITY CLASSIFIED BY PICTURE, MODE OF PRESENTATION, SEMANTIC AND SYNTACTIC CATEGORIES

Picture	Isolation	Context	Semantic	Syntactic
			Categories	Categories
1	7	2	Request	С.
1 2	11	14	Request	I.
3	12	19	Assertion	U.N.
	440 000	****	ece and	
4 5 6	9	17	Assertion	С.
6	9 5	2	S.S.R.	С.
7	12	13	Assertion	U.N.
8	***	eye 100	440 600	qup mills
9	6	2	Question	Gr.
10	gitte erme	One 200	. acc use	grati engi
11	4	10	S.S.R.	С.
12	11	20	Question	С.
13	13	17	Question	Gr.
14	23	22	Request	С.
15	0	12	S.S.R.	U.A.
16	name parts "	Brod-omili	S.S.R.	Interference
17	7	20	Assertion	U.N.
18	16	16	Assertion	U.N.
19	. 0	0	S.S.R.	U.A.
20	16	16	Assertion	U.N.
21	19	22	Assertion	U.N.
22	4	3	Request	U.A.
23	5	18	Request	U.A.
24	20	12	Request	С.
25	1	9	Question	U.A.
26	11	19	Assertion	U.N.
27	- State of the sta			Interference
28	15	19	Assertion	U.N.
29	13	21	Question	Gr.
30	15	20	Assertion	U.N.



in Table VIII. The incidence of correct responses in identifying the modality differed at the .01 level of significance. There is, therefore, a relationship between the semantic categories of modality and the incidence of correct responses in interpreting modality. The results in Table VIII indicate that null hypothesis 3 is rejected for the semantic categories of modality. The means for the semantic categories are shown in Table IX. The difference between the means of the four categories were submitted to Scheffe's Test to determine which means were significantly different from each other. The results of this test appear in Table X. For pictures in isolation and in context the differences between assertions and S.S.R. are significant at the .05 level.

The results in Table VIII also show that mode of presentation is related with a significant difference in the interpretation of modality. This difference is significant at the .01 level. With respect to mode of presentation, null hypothesis 3 is rejected by these results. Mode of presentation is a factor in the interpretation of modality. An inspection of the means in Table IX indicates that the context means are higher than the isolation means.

The results in Table VIII show no significant interaction between semantic categories of modality and mode of presentation. It may be assumed that the effect of mode of presentation is the same for all semantic categories.

Hypothesis 4 refers to modality. It is related to the effectiveness of the syntactic categories in communicating modality in isolation



TABLE VIII

ANALYSIS OF VARIANCE OF SEMANTIC CATEGORIES OF MODALITY AND MODE OF PRESENTATION

Source of Variation	DF	MS	F
Bet. categories (A)	3	257.472	5.496**
Sub. within groups	21	46.847	
Bet. modes of presentation (B)	1	133.186	8.293**
Interaction (A X B)	3	14.303	0.891
BX sub. within groups	21	16.059	

TABLE IX

MEANS OF SEMANTIC CATEGORIES OF MODALITY IN

ISOLATION AND IN CONTEXT

Categories	Isolation	Context	majorin e estado — 194
Requests	11.667	11.833	
S. S. R.	2.250	6.000	
Questions	8.800	13.800	
Assertions	13.200	18.100	



TABLE X

PROBABILITY MATRIX FOR SCHEFFE'S MULTIPLE COMPARISON OF MEANS
OF SEMANTIC CATEGORIES OF MODALITY

Categories	Requests	S. S. R.	Questions	Assertions
		IN ISOLATION		
Requests	1.000	0.079	0.843	0.954
S. S. R.		1.000	0.346	0.018*
Questions			1.000	0.513
Assertions				1.000
		IN CONTEXT		
Requests	1.000	0.527	0.959	0.277
S. S. R.		1.000	0.312	0.023*
Questions			1.000	0.636
Assertions				1.000

^{*}Significant at the .05 level.



and in context. The four levels of syntactic categories are (1) conventional and indexical elements (C.I.), (2) graphic elements (Gr.), (3) unmarked absent elements (U.A.), and (4) unmarked neutral elements (U.N.). The syntactic categories of modality are all formators with different degrees of explicitness in inducing the interpreter to respond correctly. This hypothesis, therefore, tests the difference between the effectiveness of these formators in communicating modality in isolation and in context.

Hypothesis 4 - For pictures in isolation and in context, there are no significant differences between syntactic categories of modality in conveying modality.

The results of the analysis of variance for hypothesis 4 appear in Table XI. The resulting F-ratio of 4.293 for syntactic categories gives reason to reject the null hypothesis at the .05 level of significance and the F-ratio of 8.820 for mode of presentation gives reason to reject the null hypothesis at the .01 level of significance.

The absence of significant interaction, in Table XI, indicates that the syntactic categories are not differentially affected by mode of presentation.

Table XII gives the means of successful responses to formators of different explicitness in isolation and in context. Table XIII shows which of these differences are significant. In isolation there is a significant difference between conventional and indexical elements, on one hand and unmarked absent elements, on the other, at the .05 level of significance. The difference between the means of unmarked absent



TABLE XI

ANALYSIS OF VARIANCE OF SYNTACTIC CATEGORIES OF MODALITY AND MODE OF PRESENTATION

Source of Variation	DF		F
Bet. categories (A)	3	206.274	4.293*
Sub. within groups	21	48.047	
Bet. modes of presentation (B)	1	141.321	8.82C**
Interaction (A X B)	3	13.621	0.850
BX sub. within groups	21	16.023	

TABLE XII

MEANS OF SYNTACTIC CATEGORIES OF MODALITY
IN ISOLATION AND IN CONTEXT

Categories	Isolation	Context
C.I.	11.250	12.375
Gr.	10.667	13.333
U.A.	2.000	8.400
U.N.	13.667	18.222



TABLE XIII

PROBABILITY MATRIX FOR SCHEFFE'S MULTIPLE COMPARISON OF MEANS OF SYNTACTIC CATEGORIES OF MODALITY

Categories	C.I.	Gr.	U.A.	U.N.
		IN ISOLATION		
C.I.	1.000	0.998	0.025*	0.784
Gr.		1.000	0.139	1.000
U.A.			1.000	0.003**
U.N.				1.000
		IN CONTEXT		
C.I.	1.000	0.997	0.757	0.342
Gr.		1.000	0.774	0.728
U.A.			1.000	0.085
U.N.				1.000



elements and unmarked neutral elements is significant at the .01 level. In context, on the other hand, there are no significant differences. The only difference approaching significance at the .05 level is between unmarked absent elements and unmarked neutral elements. It may be concluded from these results and from an inspection of the means in Table XII that, for pictures in isolation and in context, the absence of an iconic element to indicate modality is interpreted as indicating an assertion. It would appear, therefore, that the syntactic elements of modality operate as a zero sign in isolation and in context.

The degree of explicitness associated with conventional and indexical elements, on the one hand, and with graphic elements, on the other, are not related to a significant difference in means either in isolation or in context.

The means of the syntactic categories of modality in context, which appear in Table XIII, appear to be higher than the isolation means.

Core of the Message

The core of the content of the message was divided into arguments and relations. In the following three hypotheses, only the relations will be considered. The first hypothesis is related to the effect of the semantic categories; the next two hypotheses deal with the syntactic categories used to express the relations. The dependent variable in these three hypotheses is the number of correct responses to the relations of the message. These appearin Table XIV.

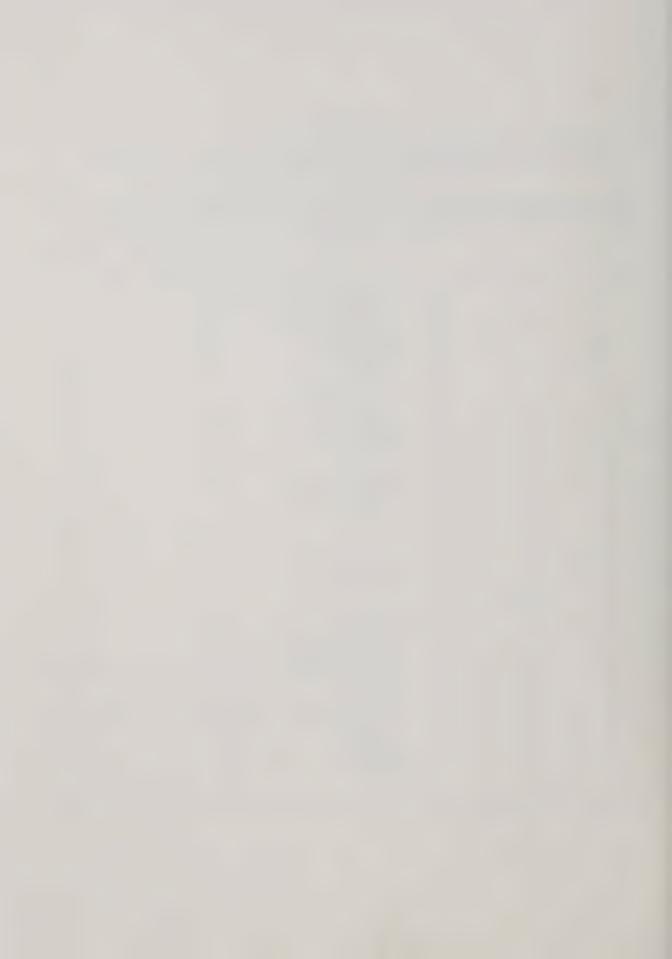
The semantic categories of the relations investigated are clusters and configurations. They are the two levels of factor A in the analysis



TABLE XIV

RESPONSES TO RELATIONS CLASSIFIED BY PICTURE, MODE OF PRESENTATION, SEMANTIC, AND SYNTACTIC CATEGORIES

Picture Isolation		Context	Semantic Categories	Syntact Categori	
	elle de Malas alexe e form a sentire de malas entre entre accessionate as access	Naghar ng Chifar maga adhafara a da 19-ar 19-a adhara - anns agus agus anns		Nature of Relationship	L1, L2
1	9	19	Configuration	R2	L2
2 3	11	15	Configuration	R2	L2
3	4	10	Cluster	R3	L2
4 5 6 7	7	0	Cluster	R2	Ll
5	5	11	Cluster	R3	L2
6	000 000	8,039 6039	660 1100	enge octo	400
7	6	1	Configuration	R2	L2
8	0	3	Cluster	R3	Ll
9	6	16	Configuration	R2	Ll
10	0	3	Cluster	R3	Ll
11	ASSE ANNO	400-00	ens with	Mor rurb	stee week "
12	2	20	Configuration	R2	L2
13	1	0	Cluster	C	Ll
14	13	20	Configuration	С	L2
15	min essa,	W-0-010	ano was	cord toda	69-cR excita
16	deed prode	act em			and with
17	16	11	Configuration	R2	Ll
18	quy ere	sie uch	Cluster	U.A.	
19	100 000	gua 110)	~ · · · · · · · · · · · · · · · · · · ·	m-m	
20	13	11	Configuration	R2	Ll
21	1	5	Cluster	U.A.	
22	4	7	Configuration	C C	L2 L2
23	4	19	Configuration	Interference	Interference
24	600 00M		Configuration	U.A.	Interrerenc
25	0	3	Cluster	R3	Ll
26	2	12	Cluster	Interference	Interference
27		7.3	Configuration	R3	L2
28	3	11	Cluster	R1	L2
29		2	Cluster	R2	L2
30	0	3	Cluster	NZ.	LA



of variance. Configurations, by definition, contain an element of activity that the clusters do not possess. Hypothesis 5 serves to investigate the effect of the difference in activity level of the relations on interpretation.

Hypothesis 5 - For pictures in isolation and in context, there are no significant differences between the semantic categories of clustering and configuration of the relations on the interpretation of the <u>relations</u> of the message.

Pictures 16, 18, 24 and 27 were removed from the sample because of the presence of interference in these pictures. In Picture 18, the presence of flowers is likely to cause interference. In picture 24, the intended message is "open the cupboard door". The fact, however, that the door is wide open is likely to induce the subject to interpret the message as "close the door". Pictures 6, 11, 15 and 19 are social situation responses and as such express only style and modality. They were, therefore, withdrawn from the sample.

Table XV presents the results of the analysis of variance for this hypothesis. Both the semantic categories of clustering and configuration and mode of presentation are associated with a significant difference in response at the O1 level. On the basis of these results, null hypothesis 5 is rejected for the levels of factors A and B. Table XV indicates that there is no overall interaction between factors A and B. It may be assumed that mode of presentation has a constant effect upon clusters and configurations.



The means of the responses to clusters and configurations in isolation and in context appear in Table XVI. An inspection of these means, along with the results of the analysis of variance lead to the conclusion that the higher level of activity of the configurations is associated with a significantly higher level of response both in isolation and in context.

An inspection of the means in Table XVIII shows that the means for pictures presented in context are higher than the means in isolation.

Hypothesis 6 concerns the investigation of the effectiveness of the syntactic categories of relations in expressing the core of the message.

Hypothesis 6 - For pictures in isolation and in context, there are no significant differences between the syntactic categories of the relations in expressing the relations of the core of the message.

The levels of factor A include (1) unmarked absent elements (U.A.), (2) elements representing actions (R2), (3) elements representing conditions or situations (R3), and (4) conventional elements (C.). Pictures 16, 24 and 27 were removed because of interference and pictures 6, 11, 15 and 19 were removed because of the absence of a core of message. Picture 29 was also removed because the relation (delimitation of time) is expressed by the representation of an object (R1).

The data for hypothesis 6 appear in Table XIV, page 81. The results of the analysis of variance, in Table XVII, show that there is no



TABLE XV

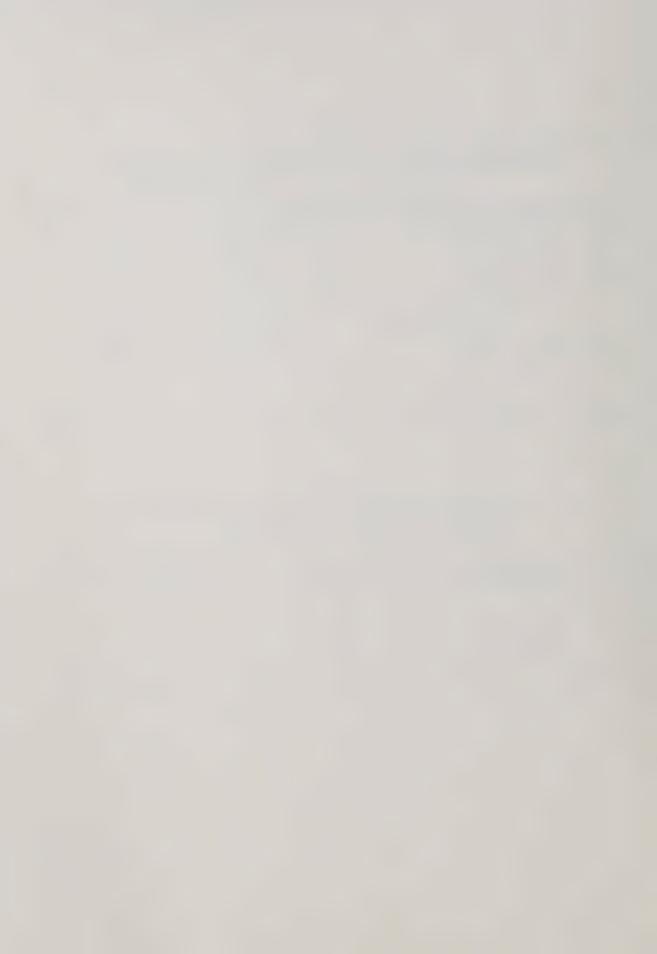
ANALYSIS OF VARIANCE OF SEMANTIC CATEGORIES OF CLUSTER AND CONFIGURATION OF RELATIONS AND MODE OF PRESENTATION

Source of Variation	DF	MS	F
Bet. categories (A)	1.	584.138	27.784**
Sub. within groups	20	21.024	
Bet. modes of presentation (B)	1	267.597	13.626**
Interaction (A X B)	1	4.557	0.232
BX sub. within groups	20	19.638	

TABLE XVI

MEANS OF SEMANTIC CATEGORIES OF CLUSTER AND CONFIGURATION OF RELATIONS IN ISOLATION AND IN CONTEXT

Isolation	Context	
1.846	6.077	
8.400	13.900	
	Isolation 1.846	1.846 Context 1.846 6.077



ANALYSIS OF VARIANCE OF SYNTACTIC CATEGORIES OF RELATIONS OF TOPIC AND COMMENT AND MODE OF PRESENTATION

Source of Variation	DF	MS The second s	F
Bet. categories (A)	3	85.947	2.034
Sub. within groups	18	42.247	
Bet. modes of presentation (B)	1	234.218	10.966**
Interaction (A X B)	3	5.095	0.239
BX sub. within groups	18	21.358	

TABLE XVIII

MEANS OF SYNTACTIC CATEGORIES OF RELATIONS OF TOPIC AND COMMENT IN ISOLATION AND IN CONTEXT

Categories	Isulation	Context	
U.A.	0.333	5.333	
R2	7.778	10.667	
R3	1.800	7.800	
C.	5.400	11.400	mally indigendence of the 10



significant difference between the levels of factor A. The hypothesis of no significant difference between the syntactic categories of the relations, therefore, is supported by these results. Although some of the differences between the means of the syntactic categories of the relations, as shown in Table XVIII, appear relatively important, the absence of significance may be due to other factors not investigated.

On the basis of the results presented in Table XVII with respect to mode of presentation, null hypothesis 6 is rejected. Mode of presentation is significant at the .01 level. The means in Table XVIII are higher in context than those in isolation. The interaction between the syntactic categories of relations and mode of presentation is not significant. It may, therefore, be concluded that mode of presentation has an over-all similar effect upon these syntactic categories.

Hypothesis 7 deals with the difference in effectiveness of pictures in isolation and in context in conveying the relations when the elements of the medium are to be interpreted denotatively (L1) and when they are to be interpreted connotatively (L2).

Hypothesis 7 - For pictures in isolation and in context there are no significant differences between the syntactic categories

L1 and L2 of the relations in conveying the relations of the message.

The pictures causing interference and those which do not include a modality were removed from the sample. Pictures 21 and 25 were also removed because of the absence of iconic elements to express the rela-



tions. The criterion for the two categories of factor A in isolation and in context is reported in Table XV page 84. The results of the analysis of variance for the categories L1 and L2 are presented in Table XIX. With respect to factor A, null hypothesis 7 is not rejected. There is no significant difference between the pictures to be interpreted denotatively and connotatively. With respect to treatment effects, however, hypothesis 7 is rejected. The difference in treatment is significant at the .01 level.

The F-ratio of 4.093 for interaction between factor A and mode of presentation is not significant at the .05 level. Since it is approaching significance at the .05 level of confidence, it may, however, be viewed as an indication that one of the treatments may be superior for one of the levels of factor A.

The results of the one-way analysis of variance on the effect of treatment upon L1 and L2, in Table XX, show that L2 is associated with a significant effect of mode presentation at the .01 level of confidence. These results, along with an inspection of the means in Table XXI, show that context may be superior for pictures intended to convey meaning connotatively.

Complexity

Hypothesis 8 deals with the relationship between levels of complexity and responses on the total message in isolation and in context. The total message is determined by adding the correct responses to style, modality, topic, and comment. Pictures 16, 18, 24 and 27 were removed from the analysis because of interference. Pictures 6, 11, 15 and 19 were also removed because they do not include a core of the message.



ANALYSIS OF VARIANCE OF SYNTACTIC CATEGORIES OF L1 AND L2 OF THE RELATIONS AND MODE OF PRESENTATION

Source of Variation	DF	no registration in minimusementus, sociale historia and recurs assistanting giftigen repair, un and in minimuse and related termination of the control of the termination giftigen assistantic and	der som i framskringeringe framskringeringering og det state for det state for det state for det state for det det state framskringeringeringeringeringeringeringeringe
Bet. categories (A)	1	53.204	1.138
Sub. within groups	18	46.737	
Bet. modes of presentation (B)	1	168.336	9.074**
Interaction (A X B)	1	75.941	4.093
BX sub. within groups	18	18.552	

TABLE XX

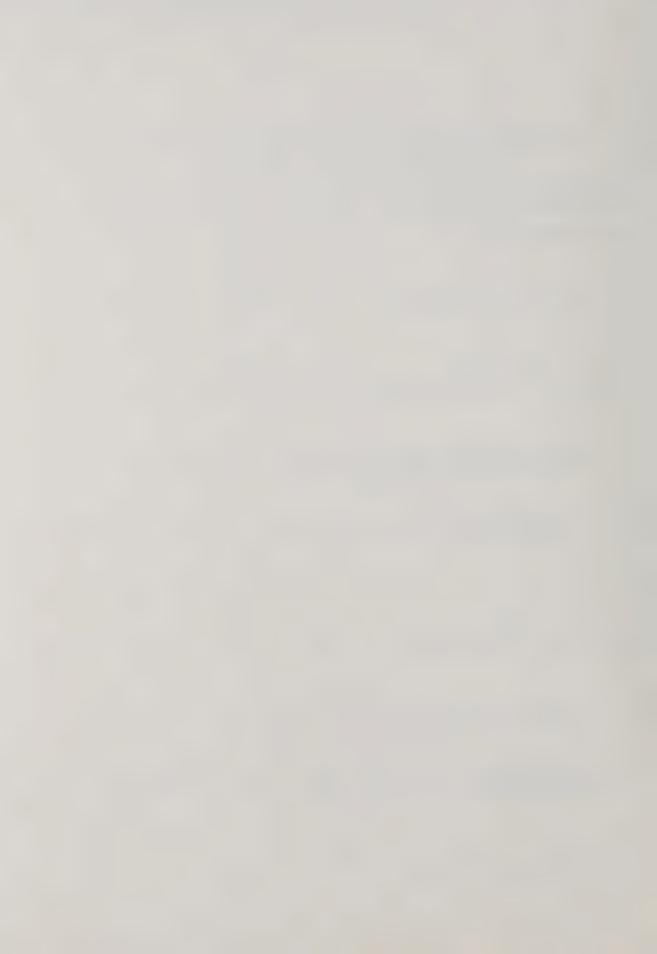
EFFECT OF MODE OF PRESENTATION ON THE SYNTACTIC CATEGORIES
OF L1, L2 OF RELATIONS OF TOPIC AND COMMENT

Categories	DF	MS	F
L1	1	7.562	0.231
L'2	1	294.000	9.004**
error	36	32.65	er ogsåttilligene den i omga med i senjantivenske transmisser statistisken statistiskenskelskelskelskelskelsk

TABLE XXI

MEANS OF SYNTACTIC CATEGORIES OF L1 AND L2 OF THE RELATION
IN ISOLATION AND IN CONTEXT

Categories	Isolation	Context
L1	5.625	7.000
L2	5.167	12.167



Hypothesis 8 - For pictures in isolation and in context, there are no significant differences between the levels of complexity in conveying the total message.

The scores on the total message for each picture in isolation and in context and the levels of complexity of each picture appear in Table XXII.

The results of the analysis of variance of the effect of the levels of complexity are shown in Table XXIII and indicate that the levels of complexity are associated with a difference in means significant at the .05 level. On the strength of these results, null hypothesis 8 is rejected. Complexity of the picture is a factor in the interpretation of the total message.

The means of the levels of complexity, reported in Table XXIV, show that the most complex pictures are the least effective both in isolation and in context. Scheffe's Multiple Comparison of Means, in Table XXV, indicates, however, that the difference in means in context is not significant. In isolation, on the other hand, the differences between C2 and C3 are significant at the .05 level.

Table XXIII also shows that mode of presentation is associated with a significant difference at the .01 level of confidence. An inspection of the means in Table XXIV indicates that the context means are higher than the isolation means.

Table XXIII shows no interaction between levels of complexity and mode of presentation. It can be inferred that all levels of complexity are related in the same way to mode of presentation.



TABLE XXII

RESPONSES ON THE TOTAL MESSAGE CLASSIFIED BY PICTURE, MODE OF PRESENTATION, LEVEL OF COMPLEXITY AND USE OF IDEOGRAPHEMES

Picture	Isolation	Context	Level of Complexity	Use of Ideographemes
4	4.0	(2	00	d de sole d
1	43	62	C2	Non-Ideo.
2	56	67	C2	Non-Ideo.
2 3 4 5 6	34	54	C3	Ideo.
4	22	13	C2	Non-Ideo.
5	35	65	C2	Non-Ideo.
	min ma	eco ma	C2	Non-Ideo.
7	45	46	C1	Non-Ideo.
8	13	10	C3	Non-Ideo.
9	30	39	C3	Ideo.
10	4	14 .	C3	Non-Ideo.
11	600 649	eron man	C2	Non-Ideo.
12	34	64	C1	Non-Ideo.
13	50	60	C2	Ideo.
14	73	84	C2	Ideo.
15	non exti		C3	Non-Ideo.
16	and one	ave 400	C1	Non-Ideo.
17	33	66	C1	Non-Ideo.
18	and para	word with	C1	Ideo.
19	qual area	and with	C2	Non-Ideo.
20	54	56	C2	Ideo.
21	46	55	C1	Non-Ideo.
22	35	41	C2	Non-Ideo.
23	48	83	C1	Non-Ideo.
24	ena ma	and ent	C3	Non-Ideo.
25	24	38	C1	Non-Ideo.
26	33	58	C1	Non-Ideo.
27	J J		C1	Non-Ideo.
28	41	65	C3	Non-Ideo.
29	40	67	C2	Ideo.
30	33	44	C3	Ideo.



TABLE XXIII

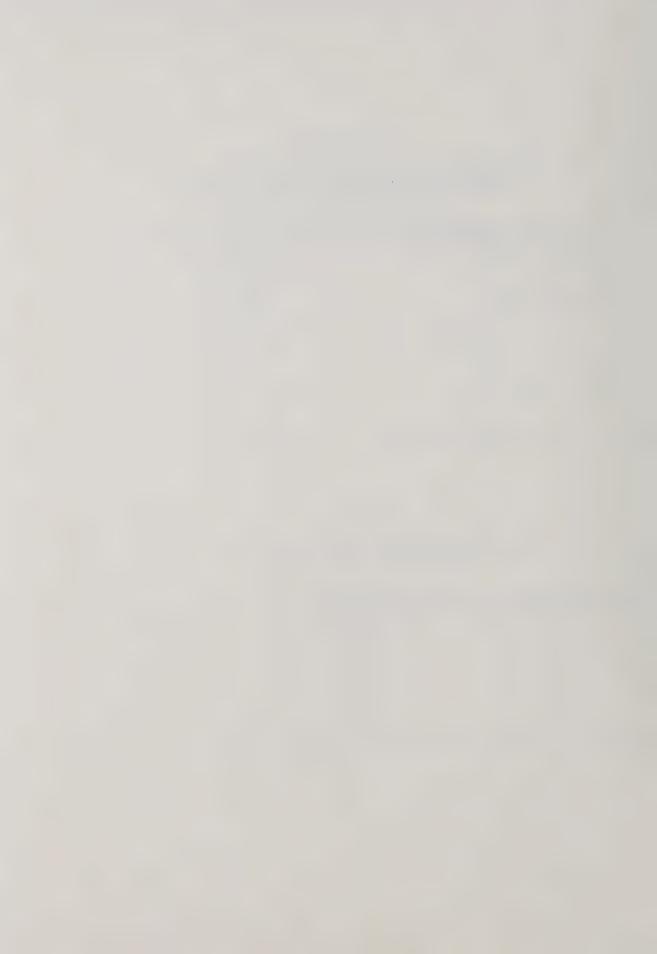
ANALYSIS OF VARIANCE OF LEVELS OF COMPLEXITY ON TOTAL MESSAGE AND MODE OF PRESENTATION

DF	MS	F
2	1590.774	3.595*
19	442.531	
1	2239.400	30.454**
2	58.844	0.800
19	73.534	
	2 19 1	2 1590.774 19 442.531 1 2239.400 2 58.844

TABLE XXIV

MEANS OF LEVELS OF COMPLEXITY ON TOTAL MESSAGE
IN ISOLATION AND IN CONTEXT

Categories	Tsolation	Context
C1	38.000	56.750
C2	45.333	57.222
C3	25.833	37.667



Ideographemic Characteristics of the Picture

The final hypothesis deals with the difference between the effect of the presence or absence of ideographemic elements in a picture on the total message. The same pictures as those for complexity were used in the analysis of variance. The responses on the total message and the classification of pictures into ideographemic and non-ideographemic appear in Table XXII page 90.

Hypothesis 9 - For pictures in isolation and in context, there are no significant differences between ideographemic and non-ideographemic pictures in conveying the total message.

Table XXVI shows that ideographemic and non-ideographemic pictures are not related to a significant difference in eliciting the total message. On the basis of this evidence, null hypothesis 9 with respect to factor A is supported. The presence or absence of ideographemes in a picture is not a factor in conveying the total message.

On the other hand, mode of presentation is associated with a significant difference in conveying the total message. It is significant at the .01 level. The treatment effects for ideographemic and non-ideographemic pictures are significant at the .01 level of confidence.

Conclusions

The findings of the investigation of factors in conveying meaning with film strip visuals were presented in this chapter. Of the first seven hypotheses, two dealt with style, the next two with modality and the following three were concerned with relations of the message. By



TABLE XXV

PROBABILITY MATRIX FOR SCHEFFE'S MULTIPLE COMPARISON OF
MEANS OF LEVELS OF COMPLEXITY

C1	C2	C3
IN ISOLAT	CION	
1.000	0.508	0.235
	1.000	0.030*
		1.000
IN CONT	CEXT	
1.000 -	0.998	0.196
	1.000	0.168
		1.000
	IN ISOLAT 1.000 IN CONT	IN ISOLATION 1.000

TABLE XXVI

ANALYSIS OF VARIANCE OF NON-IDEOGRAPHEMIC AND IDEOGRAPHEMIC PICTURES ON TOTAL MESSAGE AND MODE OF PRESENTATION

Source of Variation		MS	F
Bet. categories (A)	1	705.204	1.340
Sub. within groups	20	526.211	
Bet. modes of presentation (B)	1	1943.030	26.297**
Interaction (A X B)	1	42.636	0.577
BX sub. within groups	20	73.887	



comparing the students' scores on style, modality, and relations with mode of presentation and with the semantic and syntactic categories of the pictures, it was found that mode of presentation had the same overall effect on the semantic and syntactic categories of the message.

The pictures in context were associated with a higher score on the criterion for modality and relations but not for style. The semantic categories were related with a significant difference on the criterion both in isolation and in context for style, modality, and relations. The syntactic categories of the medium to express the different categories of meaning showed a significant difference in response for style and modality. The syntactic categories intended to express the relations both from the point of view of the nature of the relationship between the iconic elements and the referent and with respect to denotative and connotative interpretation, however, did not differ significantly in effectiveness in conveying relations.

characteristics in conveying meaning. For complexity and use of ideographemes, the dependent variable was the students' score on the total message. As in the previous hypotheses the mode of presentation had the same overall effect on the levels of complexity and on ideographemic and non-ideographemic pictures. Pictures presented in context were related with a significantly higher score than those in isolation. There was a significant difference in response associated with the levels of complexity, but not with ideographemic and non-ideographemic pictures.



The next chapter presents the summaries of the research and the findings. The findings and the information gained from the review of the literature on conveying meaning with film strip visuals are used as a basis for some conclusions about the factors in conveying meaning in second language teaching and about the use of visuals in the classroom.



CHAPTER VI

SUMMARY, CONCLUSIONS, AND IMPLICATIONS

I. SUMMARY OF THE RESEARCH

In order to determine some of the factors in conveying meaning through cartoon filmstrip visuals, a semiotic framework of study was developed. A random sample of thirty pictures from Voix et Images de France was analyzed into categories of the medium and categories of the content of the intended messages. The dimensions of the content of the intended messages selected for this study were: style, modality, relations of the topic and comment, and the total message. The elements of the medium were analyzed according to the nature of the relationship between the element and its intended meaning, the mode of signifying of the elements of the medium, and the type of code used. With respect to the nature of the relationship, the elements of the pictures were divided into indexical, conventional, and representational elements; with respect to mode of signifying into formators, designators, and mixed signs; with respect to code into single sign code, zero sign code, denotative and connotative systems. The pictures were further analyzed for complexity and use of ideographemes.

In order to elicit responses from the students, the sample of thirty pictures was divided into two sets of fifteen pictures each.

One group of grade seven students interpreted pictures one to fifteen in isolation and pictures fifteen to thirty in context. The mode of presentation was reversed for the other group of students.



It was hypothesized that for pictures in isolation and in context neither the semantic nor the syntactic categories of the message would be associated with a significant difference in response to style, modality, and relations of the messages. It was further hypothesized that neither complexity nor use of ideographemes either in isolation or in context would be related to a difference in response on the total message.

A two-way analysis of variance with repeated measures on one factor was used. The levels of factor A were the syntactic and semantic categories, the levels of complexity and use of ideographemes. The repeated measures were mode of presentation. One set of observations consisted of the scores, for pictures presented in isolation, the other consisted of pictures presented in context. To test the significance of the difference between means, Scheffe's Test was used.

II. SUMMARY OF THE MAIN FINDINGS

The evidence presented indicated that mode of presentation has the same over-all effect on the semantic and syntactic categories for the dimensions of style, modality, and relations of the messages. The same was also true of the relationship between the levels of complexity and between ideographemic and non-ideographemic pictures and mode of presentation on the total message.

The responses to style were not associated with a significant difference between modes of presentation. Style which expresses the subjects' attitude to the interpretation did not vary significantly as



a result of being interpreted either in isolation or in context. The responses to the modality and the relations of the message, on the other hand, were influenced by mode of presentation. The pictures presented in a context were associated with a higher level of response.

The semantic categories of the messages were related to a significant difference on the students' responses both in isolation and in context for style, modality, and relations.

The level of response was affected by the syntactic categories of elements to modality. For relations, however, both from the point of view of nature of the relationship between the iconic element and the referent, and with respect to literal and inferential interpretation, the level of response was not affected by the syntactic categories used to express the content.

The responses to pictures of three levels of complexity differed from one another. The most complex pictures were associated with the lowest level of correct interpretation.

Although ideographemic pictures elicit a higher mean response than non-ideographemic pictures, there was no significant difference between the response elicited by either ideographemic or non-ideographemic pictures.

III. CONCLUSIONS ABOUT FACTOR IN COMMUNICATING MEANING WITH FILMSTRIP VISUALS

1. For a system of communication to operate effectively, the first condition that must be met is that the elements of the medium used



to convey meaning, i.e. the pictures, induce the subjects to interpret. The interpreter must take a certain attitude before pictures. Consequently, the first question to be answered is whether the students adopt an interpretive attitude to pictures.

There is evidence in this study that grade seven students take an interpretive attitude. The dimension which reflects the students' attitude is style. Style indicates whether a student looks upon a picture as a source to be described or interpreted as dialogue. The results of this study show that students adopt this interpretive attitude for pictures presented in isolation and in context. Students have a tendency to overinterpret; pictures which are meant to be described are interpreted as dialogue. In pictures intended to be interpreted as dialogue, the absence of the indexical element elicits a correct response as effectively as the presence of an indexical element.

2. A second condition for a system of communication to operate effectively is that the elements of the medium communicate the message or dimensions of the message which were intended. Although no absolute norms for an acceptable level of effectiveness exist, Jacob, in discussing the problem of an acceptable level of response in comprehension of films, suggests that a level of 75 per cent correct response is acceptable. An inspection of the dependent

¹Jean-Noël Jacob, <u>L'enfant devant le film</u> (Montréal: Marcel Didier (Canada) Ltée., 1969), p. 59.



variable in Tables I, VII, XIV, and XXII in relation to the possible total of twenty-five correct responses shows that, adopting this figure as a norm, the only dimensions of the content which were communicated at this level were conversational style in isolation and in context and assertions in context. The only elements of the medium which communicated their intended meanings at this level were indexical and U.A. elements for style in isolation and in context, and U.N. elements for modality in context. On the total message, only Pictures 14 and 23 in context met this specification for level of effectiveness. The relations which are the nucleus of the messages were elicited correctly from 18.7 per cent of the interpreters for pictures in isolation and 37.9 per cent for pictures in context.

It would appear, therefore, that Corder's remarks about the difficulty of conveying meaning by translation into the native language apply equally to conveying meaning through visuals. The decision, then, as to which of those two methods should be used or as to whether a combination of the two should be used must be based on factors other than those investigated in this study. Whether pictures are used to convey meaning or to retain meaning, however, they must express the meaning clearly and effectively.

3. In the discussion of conclusions some practical suggestions are made with respect to the different factors in conveying the components of meaning of the message. These practical suggestions refer either to the improvement of pictures or to the use of visuals in the classroom by the teacher. These suggestions, however, must be considered



only as tentative and subject to further research since changing the markedness of one of the elements of the picture to express a certain dimension of meaning may change the relationship to the other elements. These changes may eliminate one type of misinterpretation but cause another.

4. The effectiveness of pictures may be increased by what the teacher does in the classroom. This fact has implications for teacher training. Prospective teachers must be trained in recognizing the elements which cause interference; they must also be made aware of the factors which influence interpretation.

If the decision is made not to use the students' native language in the classroom, the students should be given a training session in interpretation of pictures prior to starting with the course material. If the decision is made to use the students' native language but to keep it to a minimum, then the students' native language could be used to convey those elements which are particularly ineffective, e.g. relations whose semantic features form a cluster.

5. Situational meaning is best conveyed by means of pictures in a context. Presenting pictures in a context resulted in a higher level of response for modality, relations and the total message. In order to convey situational meaning, therefore, the established practice of showing pictures in a context of pictures should be continued.

One possible explanation for the fact that style is not affected by the context is that style, unlike the other components of the content of the message, reflects the interpretive attitude of the



student. This attitude is present in the interpretation of pictures in isolation as well as in context.

Many of the differences evident in the interpretation of pictures presented in isolation are not significant in the responses to pictures presented in context. This effect may be explained by the fact that the types and characteristics of the context were not a part of this study. It would, therefore, appear that the contexts used to disambiguate the meaning of pictures vary independently from the elements of the picture to convey the meaning.

6. The responses to the semantic category of narrative style were significantly lower than those for conversational style. Similar results were obtained for the syntactic category of U.N. elements to express narrative style. Since the absence of an element of the medium to convey narrative style is not effective, some other means of indicating this dimension should be devised. With respect to the use of visuals in the classroom, the convention could be established that when the indexical element is absent the picture should be interpreted as narrative. The students should be cautioned, however, to rely on the context when a person's mouth is not shown either because the speaker is not facing the student or because the picture is focused on some other element of the message.

The suggestion, made by Greimas, 2 that greater use of the narra-

A. J. Greimas, "Observations sur la méthode audio-visuelle de l'enseignement des langues vivantes," <u>Etudes de linguistique appliouée</u>, B. Quémada, editor (Paris: Didier, 1962), pp. 152-153.



tive style should be made because it is less limiting than dialogue, must be viewed with caution because of the interpretive attitude of students before pictures.

7. The four syntactic categories of elements to express modality (conventional and indexical, graphic, U. A., and U. N.) operate as a zero sign code for pictures presented in isolation. In other words, the absence of an element is interpreted as indicating assertion, Although the results for pictures in context are not quite significant, the fact that they are interpreted correctly more often may lead one to conclude that the categories which are not assertions should be marked whenever possible.

Some semantic categories of modality, however, may be more difficult to mark than others. In the sample of pictures for this study, for instance, the semantic category S.S.R. was the most difficult to convey. In interpreting greetings, students had a tendency to interpret these pictures either as social situation responses following the greeting or as questions or assertions related to the purpose of the meeting. These pictures were marked for the modality of greeting but the conventional element used was not effective in communicating that dimension. This difficulty, however, may be solved by training in interpreting modality.

Differences in marking modality are exemplified by pictures 15 and 19. Pictures 15 and 19 express social rapports of thanking and excusing oneself respectively. Neither of these pictures is marked for modality and neither elicited a correct response in iso-



lation. In context, on the other hand, picture 15 elicited twelve correct responses out of a possible twenty-five. In this case the context by specifying the time of the act of speech induced fifty per cent of the interpreters to respond correctly. Picture 19 in context did not elicit one correct response. In the case of picture 15, it would seem that it would be almost impossible to mark the picture in isolation. One must rely on context. For picture 19, on the other hand, whether the representation of the lady partially in front of the other would induce the interpreters to respond correctly is a matter for further research. As a general rule, however, categories of modality other than assertions should be marked whenever possible.

8. The level of response for the relations expressed in the topic and comment of the message reveal that this is the most difficult dimension to convey. Clusters elicited correct responses from 7.3 per cent of the students in isolation and from 24.3 per cent of the students in context. Configurations were interpreted correctly by 33.6 per cent in context. The level of activity present in the configuration of the semantic features of the relations appear to make them more amenable to visual presentation. The level of abstraction associated with the clustering of the semantic features of the relations make them difficult to present visually. Since the relations constitute the nucleus of the message, it is the most important dimension of the message. This fact along with the results obtained on the relations indicate an important area of



research. Malandain's suggestion that a course using visuals should be organized around those situations or messages which can be communicated visually and not upon a corpus of linguistic elements to be taught is supported by this evidence.

In a classroom situation, a teacher using visuals to communicate situational meaning may have to resort to the students' native language to convey the meaning of relations whose semantic features form a cluster.

There is an important difference between the syntactic categories in expressing the relations of the message. The representations of conditions or situations in context, for instance, elicit a correct response from 21.3 per cent of the interpreters, the representations of actions from 42.6 per cent, U.A. elements from 31.2 per cent, and conventional elements from 45.6 per cent of the interpreters. The fact that these differences do not result in a significant difference in the analysis of variance may indicate a possible interaction between clusters and configurations and the syntactic categories to express them.

9. Although the interaction between the syntactic categories L1 and L2 to express the relations and mode of presentation approaches significance, it is not quite significant at the .05 level. The one-way analysis of variance, however, points to a potential interaction.

³Claude Malandain, <u>Utilisation</u> des <u>films fixes pour l'enseignement des langues vivantes aux enfants</u> (Paris: Didier, 1966), p. 141.



There is an indication that context may be superior when the message is to be interpreted inferentially. These results underline the importance of research in factors involved in what constitutes adequate context.

- 10. In the discussion of the dimensions of style and modality, it was suggested that because of the coding system used in those two components of the message the effectiveness of pictures in conveying meaning could be increased by adding marks for certain categories of these dimensions. The results of the analysis of variance on complexity show that a complex picture elicits the lowest level of response both in isolation and in context. It would seem, therefore, that adding marks to a complex picture may not greatly increase its effectiveness in communicating meaning. In the course of developing visuals for second language teaching, a decision, based on research, must be made with respect to how much information can ideally be presented by the picture itself and what elements must be assigned to the context.
- 11. The use of ideographemes (balloons) in pictures has come in for some criticism by Fleming. The main criticism is that the use of ideographemes interferes with correct interpretation. In this study, the level of correct responses was higher for ideographemic than for non-ideographemic pictures. The difference, however, was not

⁴Gerald Fleming, E. Spaleny, and J. Peprnik, "The Didactic Organization of Pictorial Reality in the New Language Teaching Media," Praxis, 14 (April, 1967), pp. 160-172.



significant. It would seem that the use of balloons to convey meaning is effective dependent upon what meaning it is intended to convey and how it conveys it rather than upon the use of ideographemes as such. Picture 14, for instance, which elicited the highest level of response makes use of a balloon to indicate an absent referent. In picture 3, on the other hand, a balloon is used to express the relation, but also to express the argument "we". The correct interpretation of the argument, in this picture, rests upon the interpreter's ability to perceive the identity of the addressor and the addressee and the persons in the balloon.

IV. SUGGESTIONS FOR FURTHER RESEARCH

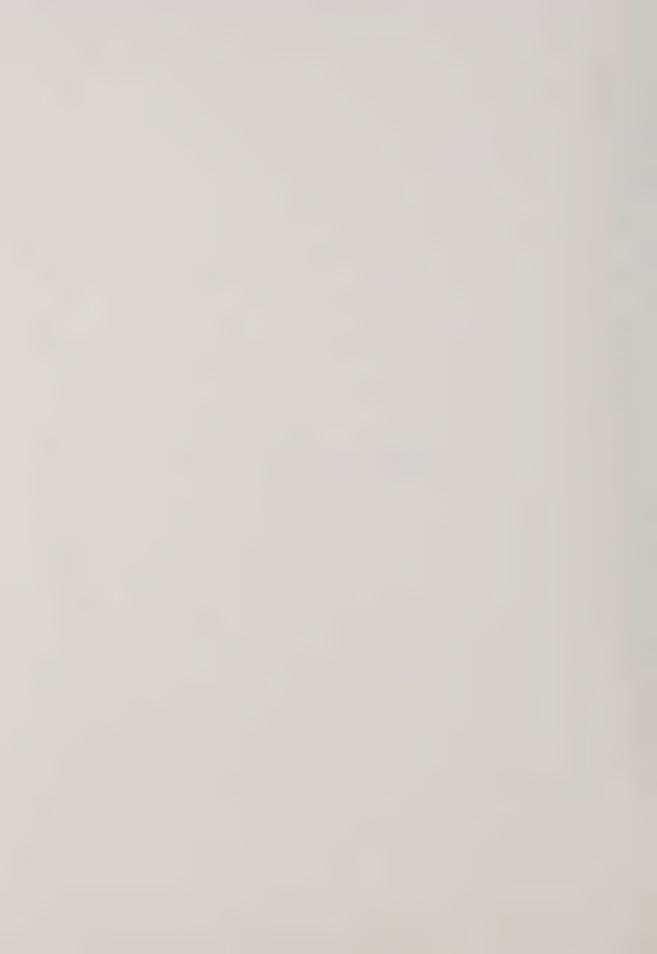
- 1. The factors which are the object of this study should be investigated separately with a sample of pictures chosen for the purpose of the investigation to find out whether the conclusions of this study are well founded or whether they are a function of a limited sample.
- 2. Further factors in conveying meaning must be investigated. Some factors which may prove to be important are (1) directionality of the message, (2) arguments, (3) delimitations of time, place, and manner, (4) effect of the density of the message, (5) the effect of using socio-cultural elements, (6) effect of elements causing interference.
- 3. The effects of a training session on the interpretation of pictures should be investigated. Rules for interpreting style, modality, topic and comment, and context could be given to an experimental



- group of subjects and their results compared to a control group.
- 4. This study did not investigate the effect of different types of contexts upon interpretation of pictures. Since the context is an important factor there is need to know more about its effects on interpretation. Some of the factors that may be investigated are:
 - (1) pro-active and retroactive effects, (2) length of context,
 - (3) type of relation between the context and the picture.
- 5. Since the relations constitute the nucleus of the message, more should be known about their interpretation. A study could be set up to investigate the effects of the syntactic categories on the different semantic categories of the relations. Although the dimensions of clusters and configurations are important, the relations should be studied with a view to determine types of clusters and configurations and their effects on interpretation.
- 6. Several experiments could be conducted in changing the elements of the medium of a picture in order to convey certain dimensions of the message more effectively. These pictures could be compared with the original ones for their effect on interpretation.



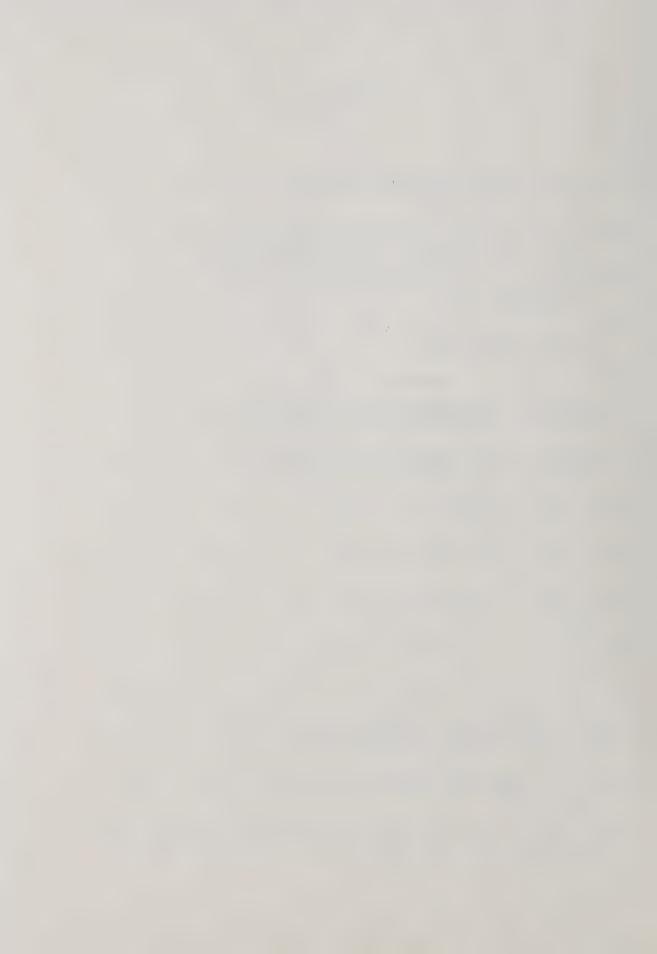




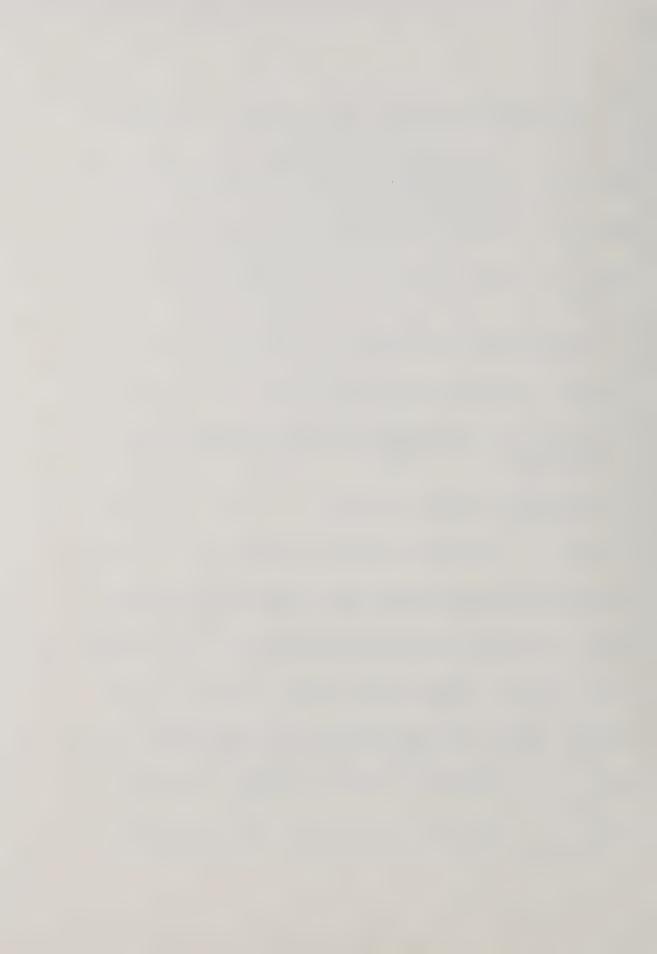
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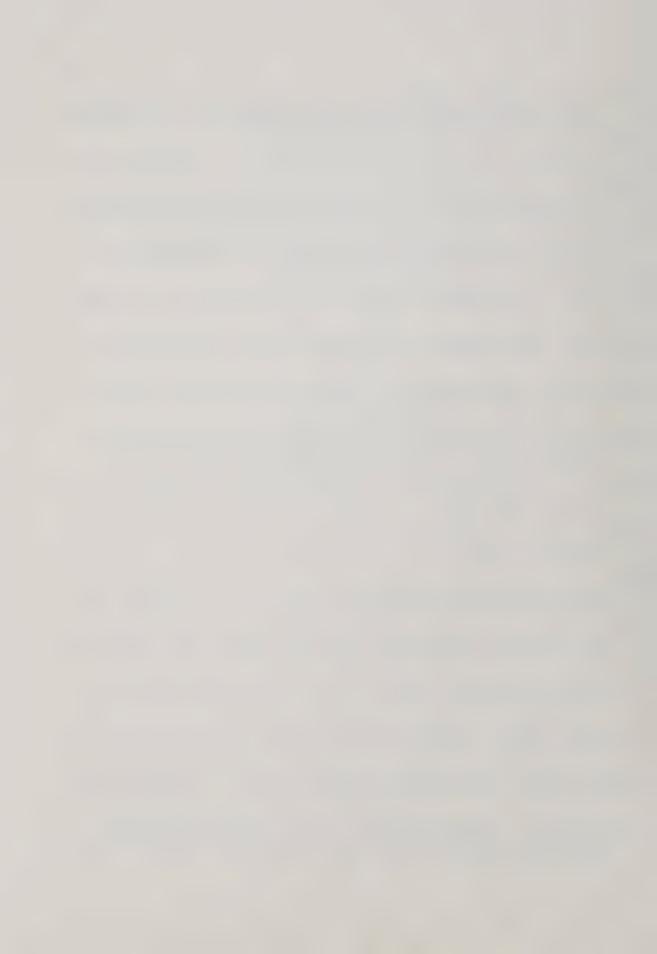
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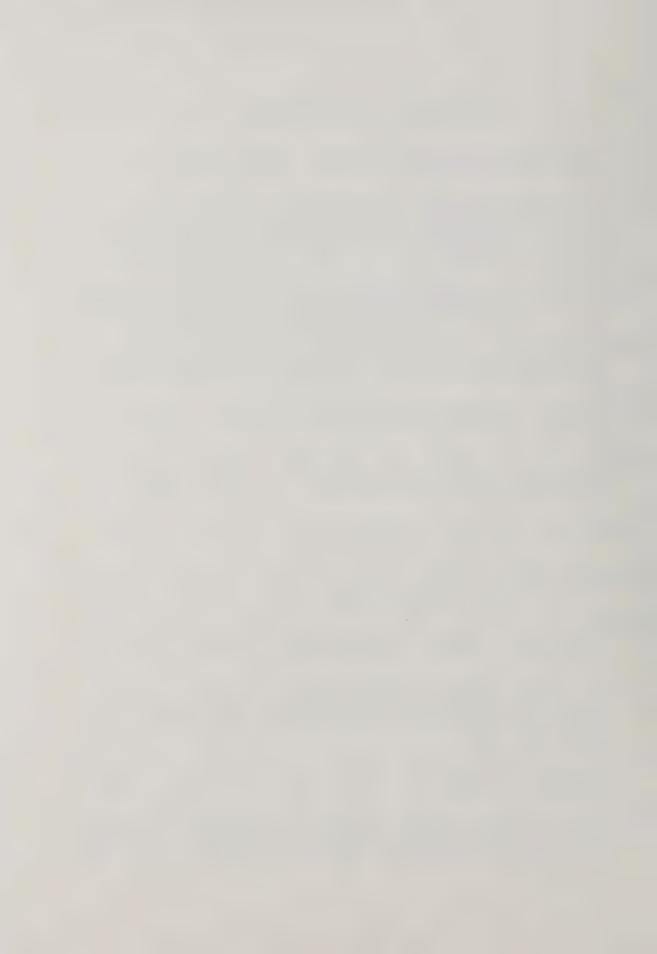
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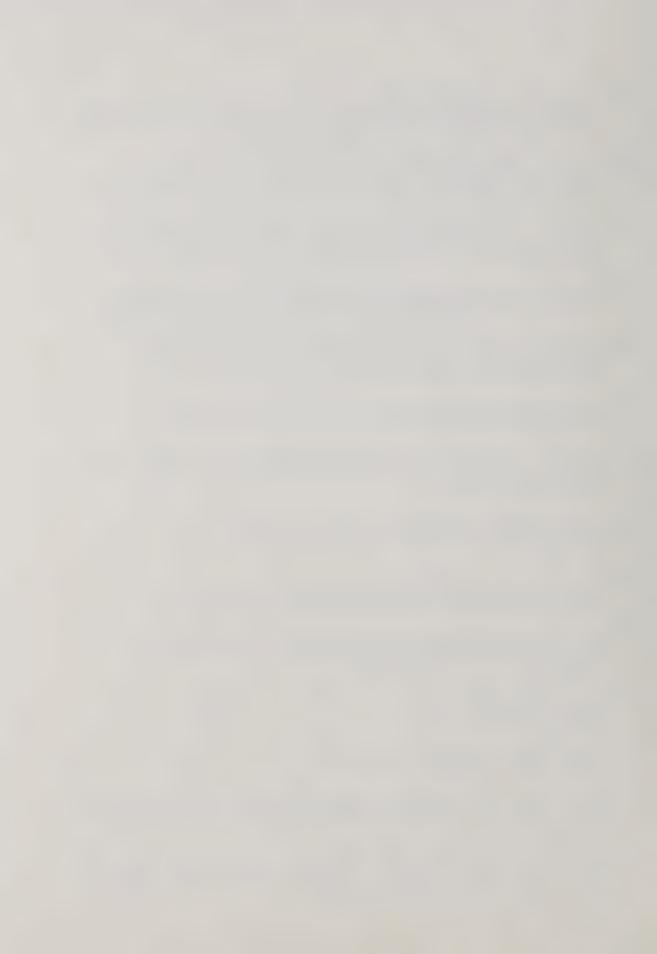
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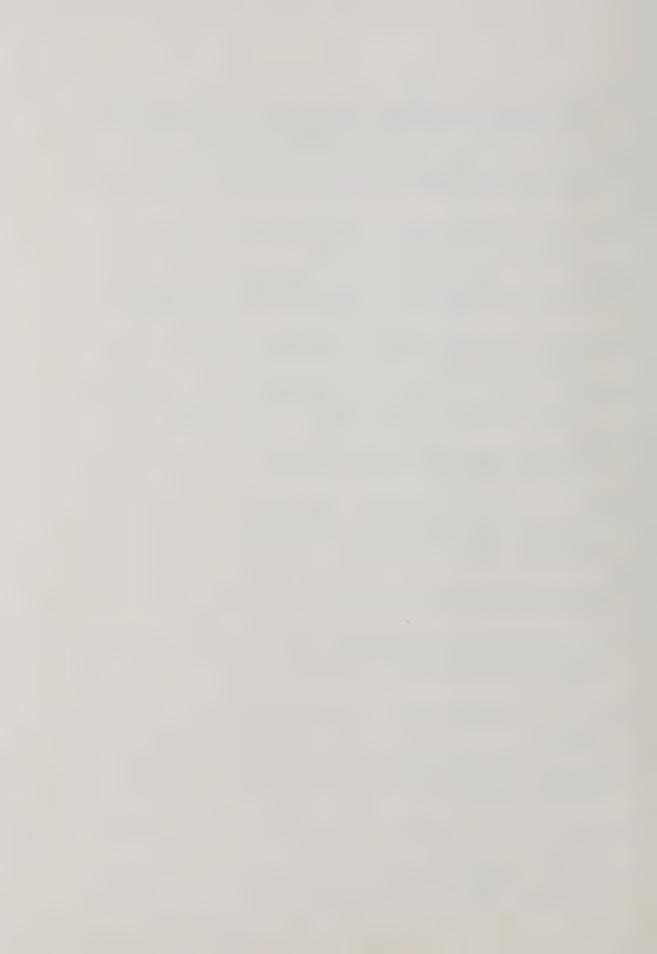
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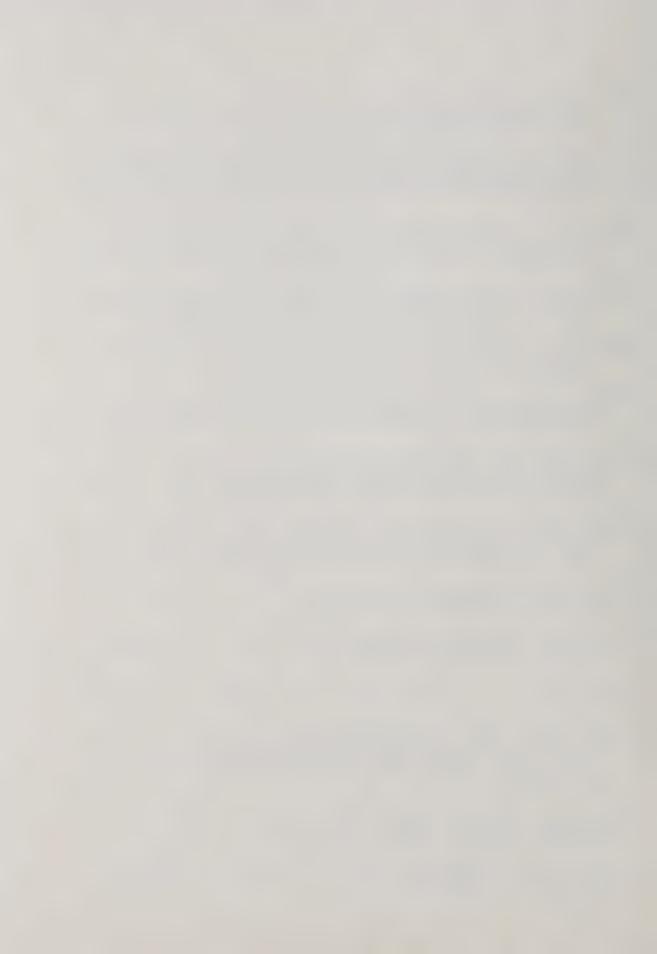
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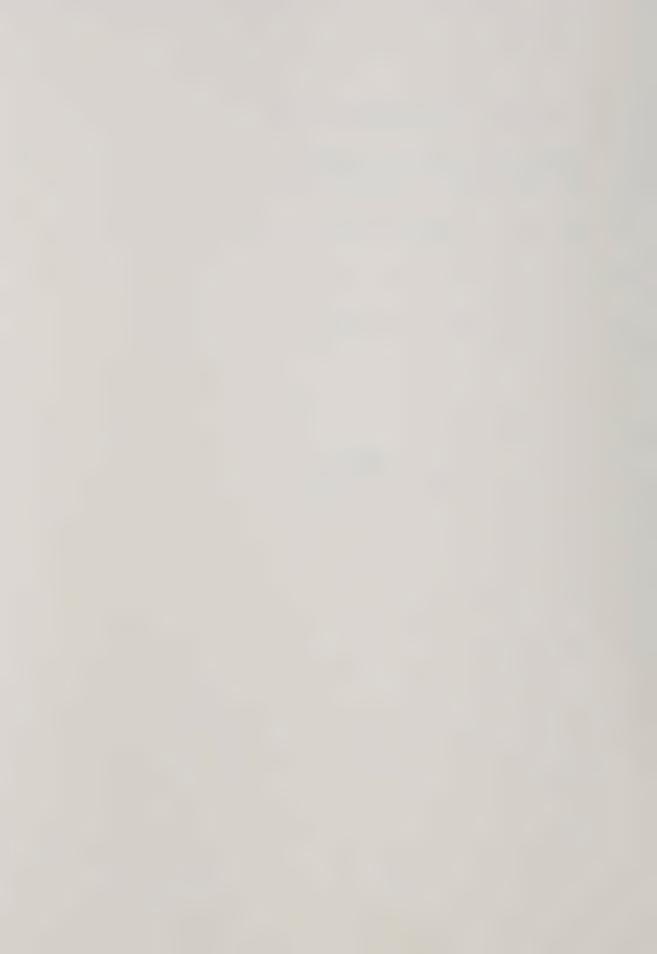
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APPENDIX A

Analysis of Pictures



APPENDIX A

ANALYSIS OF PICTURES

Each of the analyses of the thirty pictures was done from the projected visuals. Some elements, therefore, which are said to be marked may not be clear from the reproductions at the top of the page.

The first number to appear on the page is the number of the picture. This is followed by the title of the lesson. The four numbers which appear below the title are the numbers of the pictures forming the context. The number of the picture in question is underlined. At the left hand side of the page above the analysis the number of the lesson followed by the number of the picture appear in parentheses.

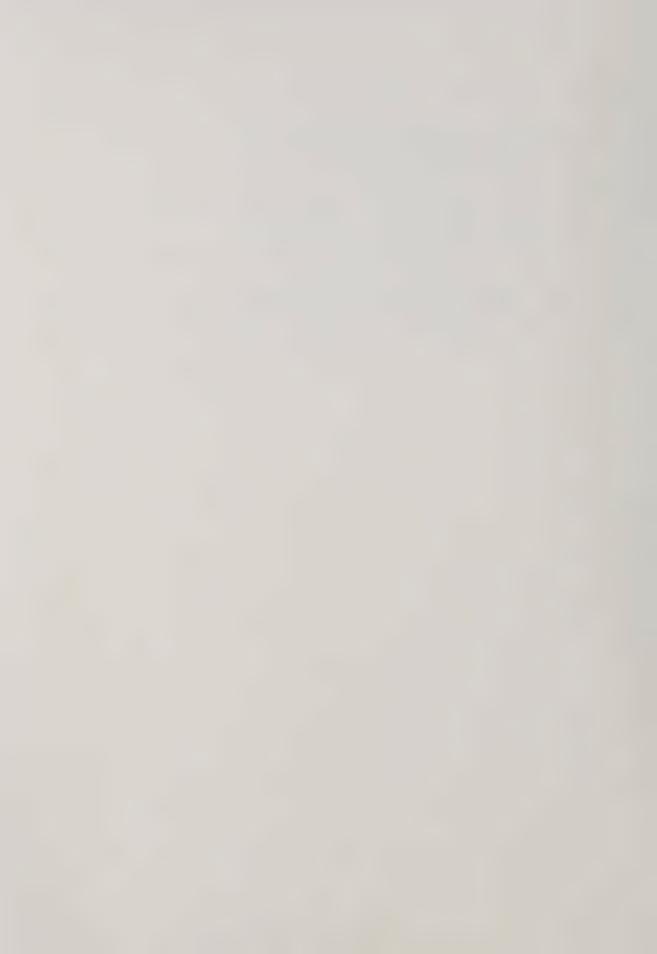
The first line of the analysis gives the French intended message. The second line gives the English counterpart of the intended message.

Legend

- 1. m.o. mouth open
- 2. U. A. unmarked absent
- 3. U. N. unmarked neutral
- 4. R representational element
- 5. R1 representation of an object
- 6. R2 representation of an action
- 7. R3 representation of a condition of a situation
- 8. C. conventional element
- 9. C. I. conventional or indexical element
- 10. Gr. graphic element



- 11. L1 element to be interpreted denotatively
- 12. L2 element to be interpreted connotatively
- 13. C1 picture containing six or fewer elements
- 14. C2 picture containing seven, eight, or nine elements
- 15. C3 picture containing ten or more elements
- 16. a, b semantic features of relations
- 17. (a, b) semantic features forming a cluster
- 18. (a --> b) semantic features forming a configuration



L'anniversaire de Catherine 2 - 5 - 6 - 26



(8 - 5)

st-ce que je peux allumer les bougies?

ay I light the candles?

Content		Medium	
Core	Semantic Cat.	Iconic Element	Syntactic Cat.
	Style Conversational	mouth open m.o.	Indexical
	Modality Request	questioningly looking up	Conventional
Candles	Topic Argument	candles	R1
I <u>light</u>	Comment Relation Configuration	action of holding matches	R2 L2

Picture Characteristics

	2 240 0000	
mplexity		Type of Picture
Persons	. 1	non-ideographemic
Objects	3 cake, candles, matches	
Conventional El.	0	Level of Complexity
Indexical El.	2 questioning look, m.o.	C2
Background	1	
Ideographemes	0	
Graphic Symbols	0	
Actions	1 holding matches	
Total	8	



En lisant le journal 16 - 6 - 23 - 26



(23 - 26)

is voir

t me see			
Content		Med	lium
Core	Semantic Cat. Style Conversational	Iconic Element mouth open m.o.	Syntactic Cat. Indexical
	Modality Request	action of pulling paper	Indexical
paper	Topic Argument	paper	R1
I <u>see</u> (a -> b)	Comment Relation Configuration	action of pulling paper	R2 L2

		Picture	Characteristics
nplexity			Type of Picture
Persons	2		Non-ideographemic
Objects	1 paper	•	
Conventional El.	0		Level of Complexity
Indexical El.	1 mouth	open	G2
Background=	1		
Ideographemes	0		
Graphic Symbols	0		
Actions	2 pulli	ng paper,	holding paper
Total	7		



A la poste 5 - 7 - 15 - 14



(20 - 14)

Nous serons obligées d'attendre.

We will have to wait in line.

Content		Medium	
Core	Semantic Cat. Style Conversational	Iconic Element	Syntactic Cat. Indexical
	Modality Assertion	nil	U. N.
WE	Topic Argument	Indication of identity by gesture and outline	Conventional and R1
Wait in line (a, b)	Comment Relation Cluster	Respective position of persons	R2 L2

Picture Characteristics

Complexity Type of picture Persons 3 Ideographemic Objects. 2 wicket, parcel

Indexical El. 2 m.o. position of Level of Complexity line up C3

Conventional .El. 1 gesture Background

Ideographemes 1 balloon

Graphic Symbols 1 marked outline of persons

Actions 0



Dans l'ascenseur $7 - \underline{1} - 2 - 5$

(10 - 1)

Madame Thibaut sort de chez elle.

Mrs.	Thibaut	leaves	her	home.
he area was managed	COLVERNATION OF THE PARTY AND	and the same of th		

Content		Medium	
Core	Semantic Cat.	Iconic Element	Syntactic Cat.
	Style Narrative	nil	U. N.
	Modality nil	nil	nil
Madame Thibaut	Topic Argument	Lady	R1
is leaving (a, b)	Comment Relation Cluster	extended backward	R2 R2 R2 L1

Picture Characteristics

		TTCCATE	Ollar ac ocr Tuer	C D
Complexity			Type of 1	Picture
Persons	.1			eographemic
Objects	2 purse,	door		- 0 1
Conventional El.	0 1		Level of	Complexity
Indexical el.	0		C2	. · · ·
Background	1			
Ideographemes	0			
Graphic Symbols	0			
Actions	3 walkin	g. back t	turned to door,	pulling knob
Total.	7	3 ,	,	1



Au grenier 6 - 25 - 26 - 33

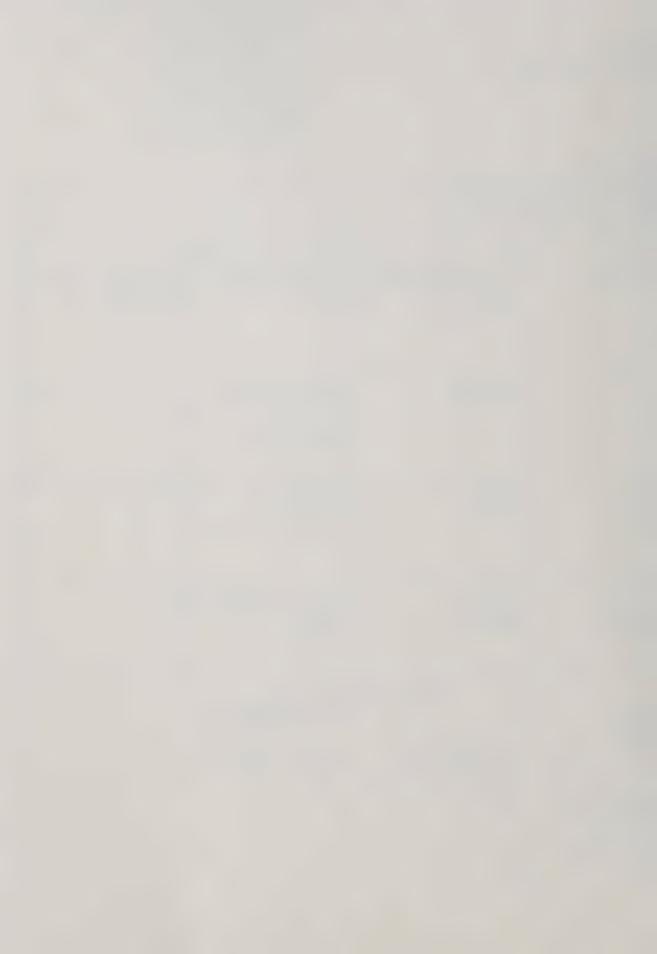
(12 - 33)

Regardez comme je suis beau!

See	how	great	Ι	look!
-----	-----	-------	---	-------

Content		Medium	
Core	Semantic Cat.	Iconic Element	Syntactic Cat.
	Style Conversational	m.o.	Indexical
	·		
	Modality Assertion	Straw hat falling over eyes black heavy coat too large, smile	U. N.
I	Topic Argument	arms out showing off (attracting attention to self)	Conventional
look great am funny (a, b)	Comment Relation Cluster	0 22	R3 L2

	Picture Characteristics
Complexity	Type of Picture
Persons	non-ideographemic
Objects '	4 hat, shoes,
	trousers, coat Level of Complexity
Conventional El.	2 arms stretched out, C2 smile
Indexical El.	1 m.o.
Background	0
Ideographemes	0
Graphic Symbols	0
Actions	0
Total	8



Présentation 11 - 3 - 4 - 13

(1 - 4)

Bonjour, mademoiselle.

Hello, Miss.

Content		Medium	
Core	Semantic Cat.	Iconic Element	Syntactic Cat.
	Style Conversational	m.o.	Indexical
	Modality S.S.R. Greeting	inclination of head and graphic representation of movement	Conventional
	Topic nil		
	Comment nil		

Picture Characteristics

complexity Type of Picture Persons non-ideographemic Objects 1 door Conventional El. 1 inclination of head Indexical El. 1 m.o. Level of Complexity Background 1 inside of home Ideographemes Graphic Symbols 1 graphic representation of movement Actions 1 lady opening door Total



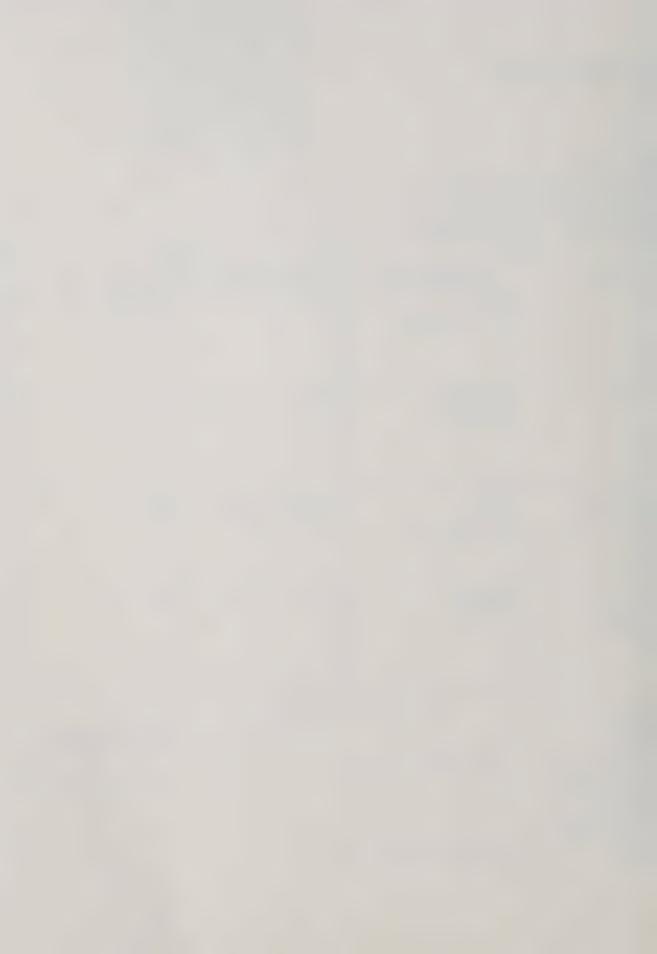
(13 - 31)

Total

Bien sûr! Je prends mon sac.

Content		Medium		
Core	Semantic Cat.	Iconic Element Syntactic Cat.		
	Style Conversational	nil	U. A.	
	Modality Assertion	nil	U. N.	
I am taking (a> b)	Topic Relation Configuration	action of placing purse on arm	R2 L2	
my purse	Comment Argument	purse	R1	

Picture Characteristics omplexity Type of Picture Persons non-ideographemic. Objects 3 coat, gloves, purse Conventional El. 0 Level of Complexity Indexical El. 0 C1 Background 0 Ideographemes 0 Graphic Symbols Actions 1 placing purse on arm



Au grenier <u>1</u> - 7 - 14 - 5



(12 - 1)

8

Paul	est	au	grenier.

Paul is in the attic		trapinant trapinat user de montation de la montation de montation de description	almost to sures that a the definition or make photolety on the sea metallicular point that the first purple of the seasons are supple of
Content		Medium	
Core	Semantic Cat.	Iconic Element	Syntactic Cat.
	Style Narrative	nil	U. N.
	Modality nil		er
Paul.	Topic Argument	boy	R1
is in the attic. (a, b)	Comment Relation Cluster	standing in attic	R3 L1

Picture Characteristics

omplexity	
Persons	1
Objects '	7 bicycle, trunk, tailor's dummy, stairs, 3 other objects
Conventional El.	0
Indexical El.	0
Background	1 attic
Ideographemes	0
Graphic Symbols	0
Actions	1 looking away from objects
Total	10

Type of Picture non-ideographemic-

Level of Complexity C3



A la poste 13 - <u>35</u> - 32 - 31



(20 - 35)

Co

Vous n'ecrivez pas quelques mots à vos parents?

Are you not writing a few lin

	a few lines to your	parents:	manufor Barriera Alla Selle o transcolora de la colora e Francis de la colora del colora de la colora del la col
Content		Medium	
Core	Semantic Cat.	Iconic Element	Syntactic Cat.
	Style Conversational	m.o.	Indexical
	Modality Question	Question mark-	Graphic symbol
writing a letter (a> b)	Topic Relation Configuration	action of writing	R2 L1
you	Comment Argument	person in balloon is not the same as speaker; representa- tion of non-identity	Indexical

Picture Characteristics

	I TO OCT O OTICE CO OCT TO OTOD	
omplexity		Type of Picture
Persons	4	ideographemic
Objects	2 pen, letter	
Conventional El.	0	Level of Complexity
Indexical El.	2 m.o., representation of non-identity	C3
Background	0	
Ideographemes	1 balloon	
Graphic Symbols	2 question mark, mark for negation	
Actions	2 lady holding gentleman's arm, lady writ	ing
Total	13	



(24 - 6)

Total

Autour du bassin (Tous les bancs verts sont occupés) Around the fountain (All the green benches are occupied) Content Medium Core Semantic Cat. Iconic Element Syntactic Cat. Style nil U. N. Narrative Modality nil All the green Topic people seated R3 benches are Relation 11 occupied Cluster (a, b) Comment around the fountain R3 around the Delimitation of place fountain

and the second section of the section of t		
Complexity	Picture Characteristics	,
Persons Objects	5 five groups of people	Type of Picture non-ideographemic
	6 pool, fountain, boats, stairs, trees, carriage	Level of Complexity
Conventional El. Indexical El.	0	03
Background Ideographemes	0	
Graphic Symbols	0	
Actions	1 boy playing in pool	



11 Au cafe 1 - 2 - 5 - 6



(25 - 1)

d day, Mrs.	the same of the sa		
The same of the sa	Content	Medi	um
Core	Semantic Cat.	Iconic Element	Syntactic Cat.
	Style Conversational	m.o.	Indexical
and the second			
	Modality S.S.R. Greeting	inclination of head	Conventional
	Topic nil		
	Comment nil		

0		Picture Characteristics		
Complexity Persons Objects		2 2 waiter's clothes, lady's outdoor	Type of non-ic	Picture deographemic
Conventions Indexical I Background Ideographem Graphic Sym Actions Total	el. nes (abols	clothes inclination of head m.o. Cafe de la Paix persons standing in front of cafe terrace	Level of C2	Complexity





(14 - 24)

Total

Est-ce que tu range	es la couverture?	and the contract of the contra	and the same of
Are you putting awa			anna di manana panguna nganguna nganguna nganguna anna an
	itent	Medi	11m
Core	Semantic Cat.	Iconic Element	Syntactic Cat.
	Style Conversational	m.o.	Indexical
	Modality Question	raised head and eyebrows	Conventional
are you putting away (a> b)	Topic Relation Configuration	action of holding up toward addressee	R2 L2
the blanket	Comment Argument	blanket	R1

Picture Characteristics

		Picture Characteristics	
Cc	mplexity Persons Objects	2 1 blanket	Type of Picture non-ideographemic
•	Conventional El. Indexical El. Background Ideographemes Graphic Symbols	1 raised head and eyebrows 1 m.o. 0 0	Level of Complexity C1
	Actions	1 holding blanket	

1 holding blanket



13 L'appartement 2 - 5 - 9 - <u>12</u>



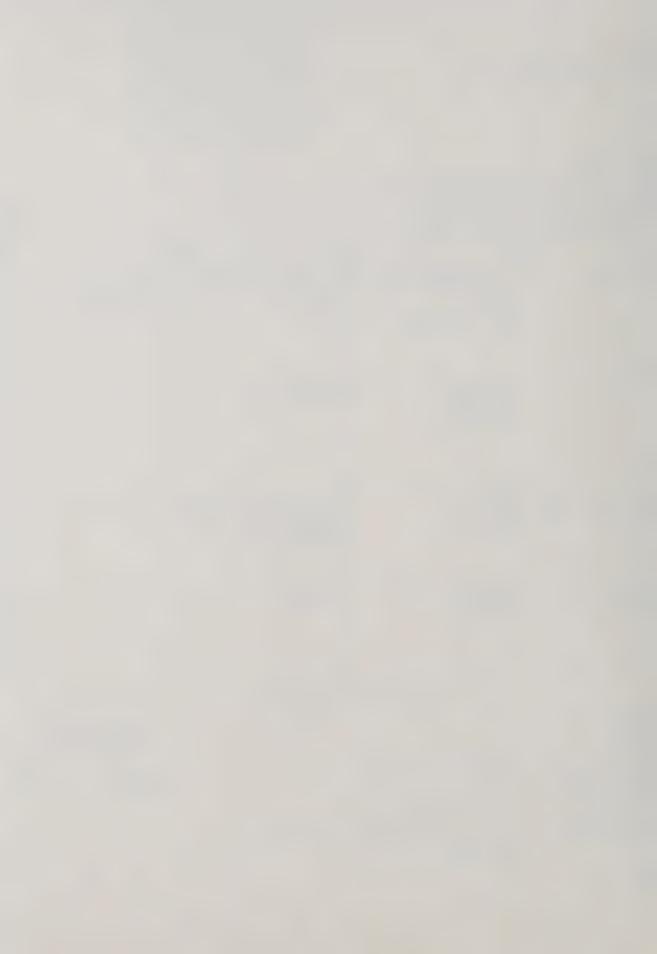
(5 - 12)

e the children at	home?	The state of the s	's Principle algorithm to dispressability stransspround, notice while applicant stability are sent of the dispressability was
Cont	tent	Medi	3179
Core	Semantic Cat. Style Conversational	Iconic Element m.o.	Syntactic Cat. Indexical
	Modality Question	question mark	graphic symbol
Are they at home? (a, b)	Topic Relation Cluster	finger pointing downwards and graphic representation of movement	Conventional
children	Comment Argument	outline of children	R1

Picture Characteristics

Complexity	
Persons .	1
Objects	0
Conventional El.	1 pointing downward
Indexical El.	1 m.o.
Background	1 inside of home
Ideographemes	2 outlines of children
Graphic Symbols	2 question mark, representation of movement
Actions Total	0 8

Type of Picture ideographemic



14 Au restaurant 2 - 6 - 7 - 8



(27 - 7)

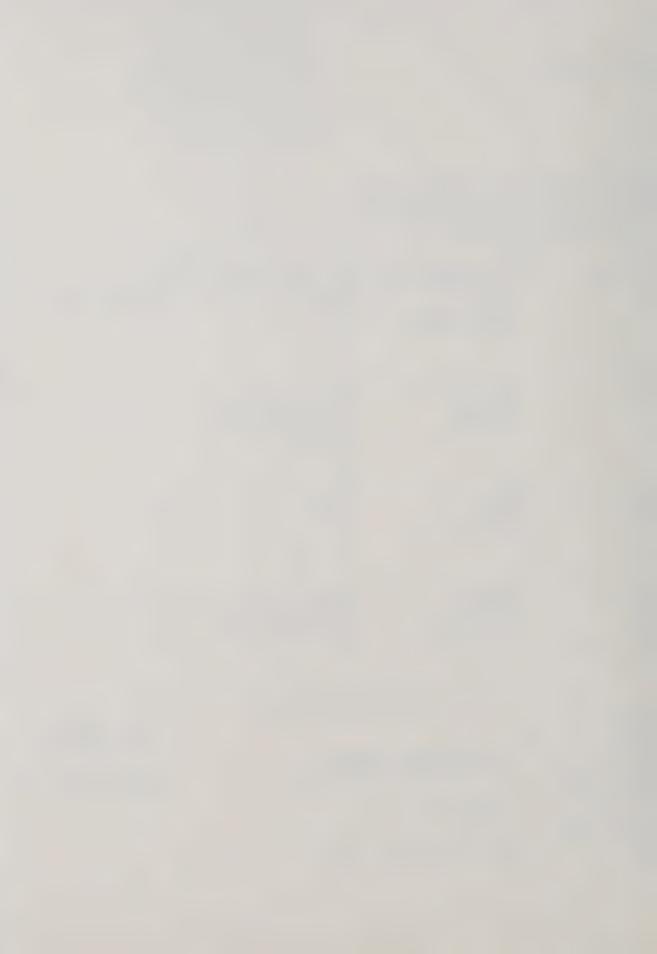
aitress! The m	nenu, please.	and the first the state of the state of the second state of the se	والمرافقة والمرا
in the first of the appropriate the first transfer and the sign state and the sign	Content	Medi	1334
Core	Semantic Cat.	Iconic Element	The same of the sa
	Style Conversational	nil	Syntactic Cat. U. A.
	Modality Request	arm extended toward addressee; index raised	conventional
menu	Topic argument	menu	R1
<u>bring</u> (a → b)	Comment Relation Configuration	arm extended toward addressee, index raised and menu	Conventional L2

Picture Characteristics

Complexity		
Persons Objects	2 2 memi, waitress' uniform	Type of Picture ideographemic
Conventional El. Indexical El. Background	2 arm extended, index raised 0 1 restaurant	Level of Complexity
Ideographemes Graphic symbols	1 balloon 0	
Actions	1 waitress carrying tray	

Total

9



Monsieur Robin achète son journal 20 - 21 - 24 - 23



(22 - 23)

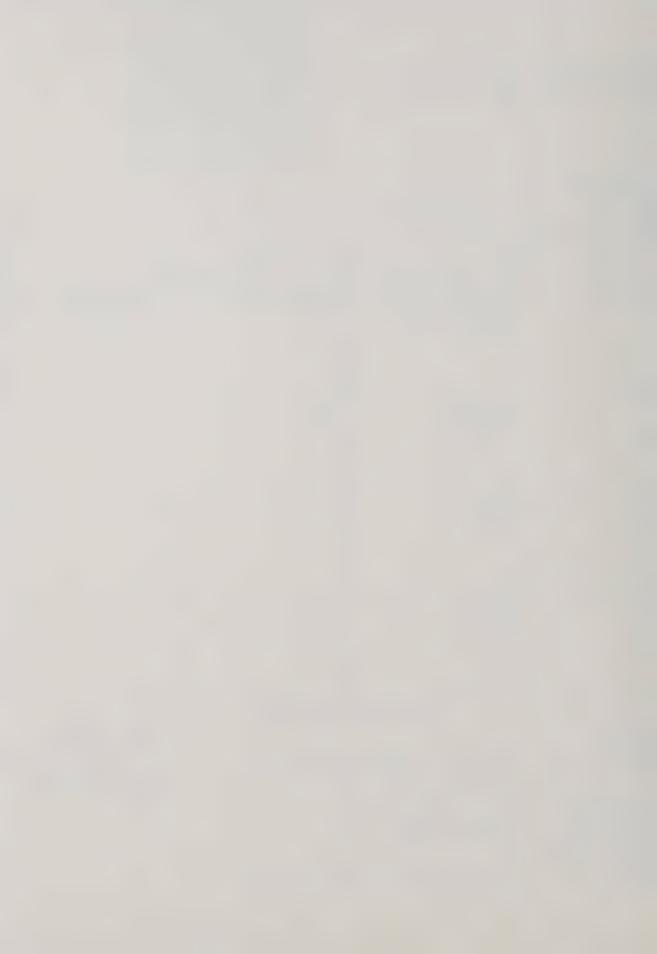
Complexity

ank you.			- The second section of the second section of the second section of the second section of the se
had the start of the content of the second o	Content	Med	lium
Core	Semantic Cat.	Iconic Element	Syntactic Cat.
	Style Conversational	m.o.	Indexical
	Modality S.S.R. thanking	nil	U. A.
	Topic nil		
To Mark the deal of the control of t	Comment nil		

Picture Characteristics

Persons.	. 2
Objects	3 magazine, brief case, street clothes
Conventional El.	0
Indexical El.	2 m.o., counter-vendor
Background	1 street stalls
Ideographemes	0
Graphic Symbols	0
Actions	2 holding paper, looking at paper
Total	10

Type of picture non-ideographemic



16 Le téléphone. 7 - 44 - <u>45</u> - 47

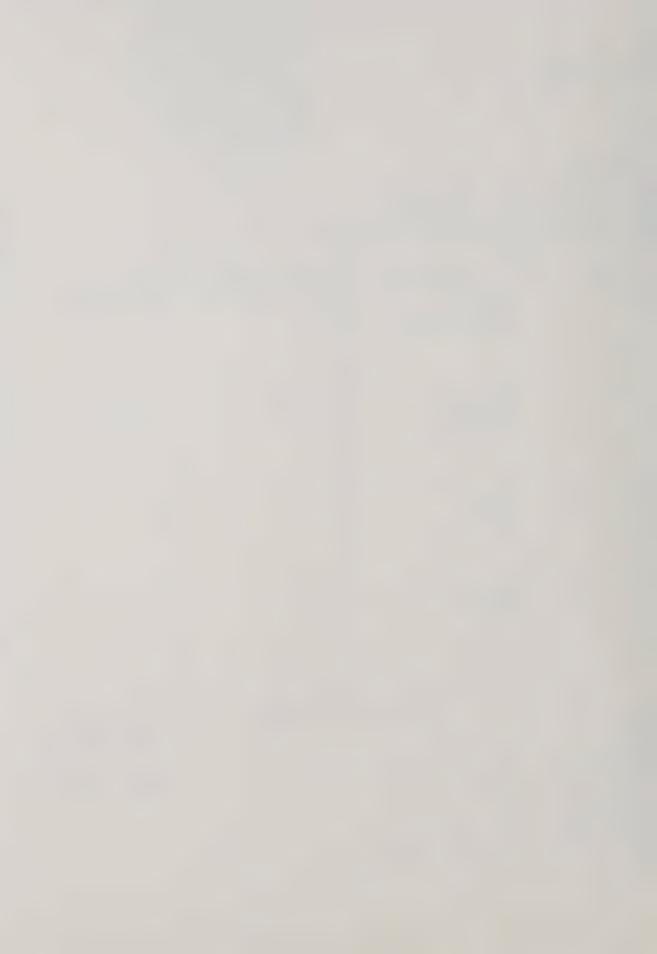


(29 - 45)			
Allô, c'est toi Ma	arie? Ici Charles.		
Hello. Is this yo	ou Marie? This is Cha	The comments of the comment of the c	
	ntent	The second secon	
Core	Semantic Cat.	Iconic Element	ium
	Style Conversational	m.o.	Syntactic Cat. Indexical
	Modality S.S.R. greeting	pressing button	cultural Interference
· · · · · · · · · · · · · · · · · · ·	Topic nil		
	Comment nil		

Picture Characteristics

Complexity	Picture Characteristi
Persons	1
'Objects	1 telephone
Conventional El.	0
Indexical El.	1 m.o.
Background	0
Ideographemes	0
Graphic Symbols	0
Actions	1 pressing button
Total	4

Type of Picture non-ideographemic Level of Complexity C1



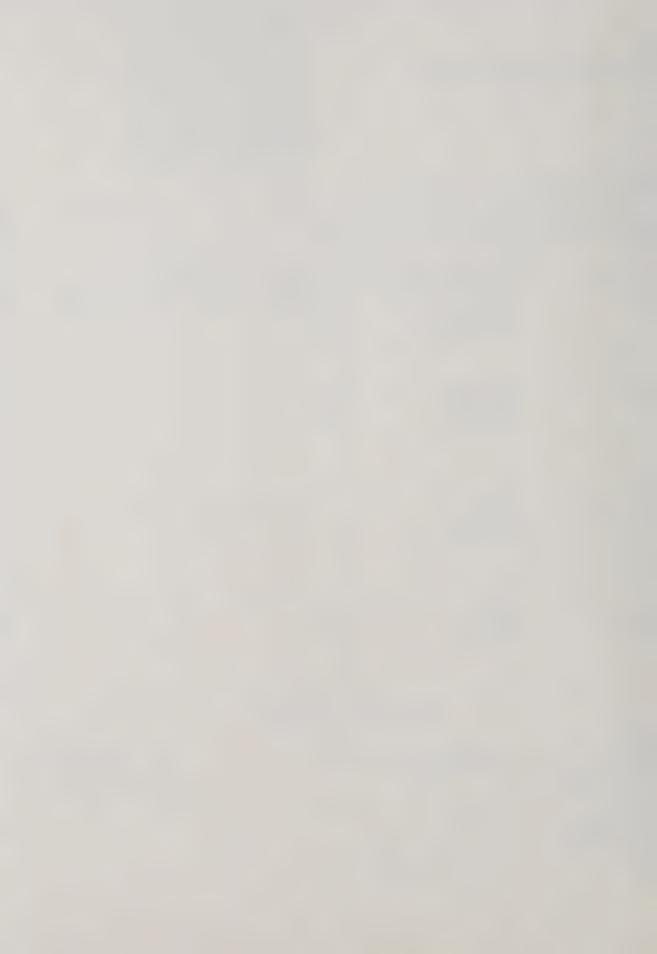
Catherine et Paul dessinent. 16 - 19 - 4 - 6



(7 - 6)

Med Iconic Element nil	Syntactic Cat.
Iconic Element	Syntactic Cat.
Iconic Element	Syntactic Cat.
and the second s	
	U. A.
nil	U. N.
action of drawing	R2
	L1
eyes	R1
	action of drawing

	Picture Characteristics	
Complexity Persons Objects	1 (arm implies one person) 2 drawing, chalk	Type of Picture non-ideographemic
Conventional El. Indexical El. Background Ideographemes Graphic Symbols Actions	0 0 1 blackboard 0 0 1_action of drawing	Level of Complexity C1
Total	5	



La journée de monsieur Thibaut 20 - 21 - 30 - 28



(18 - 28)

e 1 ^{er} mai (L'usin	The same of the sa	and the property of the state o	the manufact of the service of the proposal and an interpretate and admitted to the admitted to the admitted to the service of	
	The factories are close	ed)		
Content		Medium		
Core	Semantic Cat. Iconic Ele		The second of the second design that the second control of the second se	
	Style Conversational	m.o.	Syntactic Cat. Indexical	
	Modality Assertion	nil	U. N.	
The factories	Topic Relation Cluster	nil	U. A.	
(a, b)				
on the first of May	Comment delimitation of time	calendar lily of the valley	R1 conventional cultural element causing interfer ence	

	Ficture Characteristics	
omplexity Persons Objects	1 2 calendar	Type of Picture ideographemic
Conventional El. Indexical el. Background Ideographemes Graphic Symbols Actions Total	1 lily of the valley (1st of May) 1 m.o. 0 1 balloon 1 1 Mai 0	Level of Complexity C1



Présentation 4 - 11 - 13 - 14

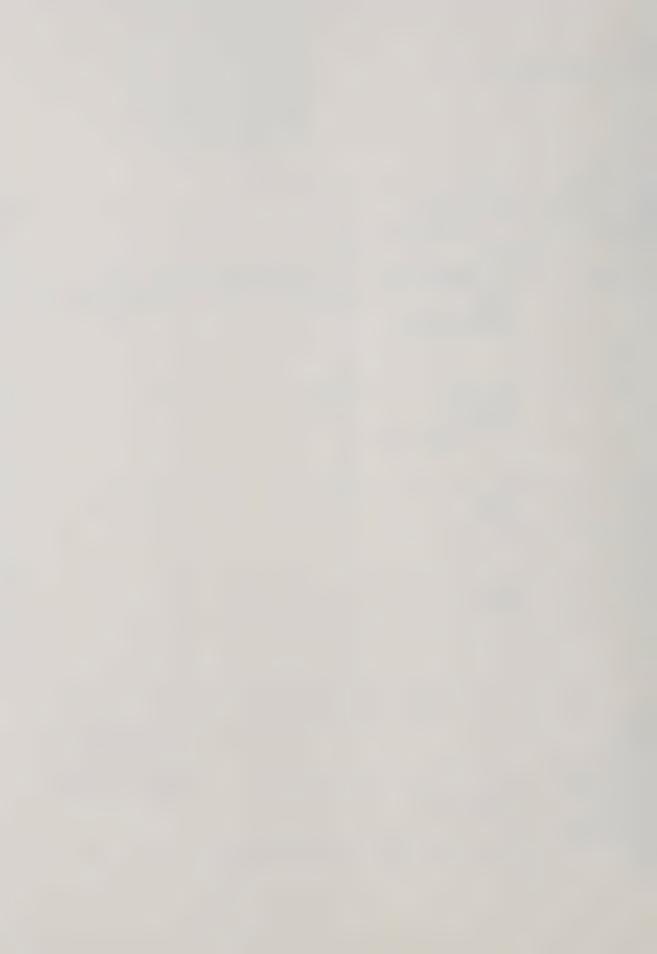
(1 - 14)

ardon.			and the second s
xcuse me.		allitan tanggapapantagaling ligaran asin asintakan dimenuntukan dalah dan an Antonia Vanas dalah sa an distakan masa t	gant a straigh a ceith raige a ceir feach is thair a sea de arthu a sealgran feach of a righ arm sea placeborn a risk from taches a ceith de acceptable de arthur a ceith from taches a ceith de acceptable de accep
The states are a discovered or state, speed at the state of the state and state of the state of	Content	Mad	ium
Core	Semantic Cat. Style	Iconic Element	Syntactic Cat.
	Conversational	ii. O	Indexical
	Modality S.S.R. excusing oneself	nil	U. A.
	Topic nil		
	Comment nil		

Picture Characteristics

Parameter	
Persons 3 Objects 1 door	
Conventional El. 0	
Indexical El. 1 m.o.	
Background 1 inside home Ideographemes 0	
Graphic Symbols . O	
Actions 2 lady holding door, 2 persons entering 8	?

Type of Picture non-ideographemic *



La journée de madame Thibaut 4 - 6-8 - 9

(17 - 9)

Commence of the second				
Je nettoierai la	cuisine.	Annymous and an extension of the second		
I will clean the	kitchen.	and the training trainings of the second	traditions with a read to the species of the species of the species and the species and the species of the spec	
Content		Medium		
Core	Semantic Cat.	Iconic Element	Syntactic Cat.	
	Style Conversational	m.o.	Indexical	
	Modality Assertion	nil	U. N.	
I will clean (a→ b)	Topic Relation Configuration	action of cleaning	R2	
the kitchen	Comment Argument	in kitchen	R1	

Picture Characteristics

Complexity	1100010 Onaracouring of Op
Persons	.2
Objects	2 counter, apron
Conventional El.	0
Indexical El.	1 m.o.
Background	1 kitchen (counter & stove & tiles)
Ideographemes	1 balloon
Graphic Symbols	0
Actions	_1 lady cleaning
Total	8

Type of Picture ideographemic



L'appartement 21 - 31 - 45 - 46

(4 - 46)

Oui, il me plaît be	eaucoup.	And were the second sec		
Yes, I think it is	very nice.	والمنافضة والمعاولة والمعاولة والمنافضة والمنا	Parificial and representative and analysis of the parificial and the second and t	
Content		Medium		
Core	Semantic Cat.	Iconic Element	Syntactic Cat.	
	Style Conversational	m.o.	Indexical	
	Modality Assertion	nil	U. N.	
It (The apartment)	Topic Argument	arms outstretched sideways indicating apartment	Conversational	
<u>is</u> nice (a, b)	Comment Relation Cluster	nil	U. A.	

Picture Characteristics

Complexity	rictare
Persons .	2
Objects	0
Conventional El.	1 arms extended
Indexical El.	1 m.o.
Background	1 doors of home
Ideographemes	0
Graphic Symbols	0
Actions	0
Total	5

Type of Picture non-ideographemic



Madame Thibaut fait ses courses. 47 - 39 - 40 - 41



(21 - 40)

Total

	ne butcher shop.	the property of the second sec		
Content		Medium		
Core	Semantic Cat.	Iconic Element	Syntactic Cat.	
	Style Conversational	nil	U. A.	
	Modality Request	nil	U. A.	
<u>Let's go</u> to (a → b)	Topic Relation Configuration	arm extended index finger pointing at butcher shop	Conventional L2	
the butcher shop	Comment Argument	the butcher shop	R1	

~			Picture Characteristic	S		
Co	Persons Objects	3	butcher's apron			Type of Picture non-ideographemic-
	Conventional El. Indexical El.	1	index finger pointing		•	Level of Complexity
	Background Ideographemes	0	street and shop			
	Graphic Symbols Actions	0	BOUCHERIE			



(21 - 24)

(Give me)		and all to have demokrate to the material material and and the defendence of the contract of t
tent	Med	ຳນາກ
Semantic Cat.	The state of the s	Syntactic Cat.
Style Conversational	nil	U. A.
Modality Request	nil	U. A.
Topic Relation Configuration	arm extended index finger pointing	Conventional L2
Comment Argument	bottle of milk	R1
	Semantic Cat. Style Conversational Modality Request Topic Relation Configuration	tent Med Semantic Cat. Iconic Element Style Conversational Modality Request Topic Relation Configuration Comment bottle of milk

Complexity Persons Objects	1 2 milk bottle, shelf	Type of Picture non-ideographemic
Conventional El. Indexical El. Background Ideographemes Graphic Symbols Actions Total	1 index finger pointing 0 0 0 0 0	Level of Complexity C1



En rangeant l'armoire 1 - 2 - 3 - 4

(14 - 4)

Total

Duvre la porte de	l'armoire.	Burgara and the second contract of the second	and the state of t	
pen the cupboard	door.	e in the colored and the first strategic and the colored and t		
Co	ontent	Med	ium	
Core	Semantic Cat.	Iconic Element	Syntactic Cat.	
	Style Conversational	m.o.	Indexical	
	Modality			
	Request	index pointing at door	Conventional	
Cupboard door	Topic Argument	door	R1	
open	Comment Relation	arm extended finger	Conventional	
(a> b)	Configuration	pointing at open door	L2	
			interference	

Picture Characteristics Complexity Type of Picture Persons non-ideographemic -Objects ' 3 cupboard, door, linen Conventional El. 1 index pointing Level of Complexity Indexical Fl. 1 m.o. C3 Background 1 corner of room Ideographemes 0 Graphic Symbols Actions

 $\frac{2}{10}$ girl holding door, lady carrying linen



25 Au cinéma 1 - 18 - <u>19</u> - 21



(31 - 19)

() 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			·
Qui est cet artiste	?		age and an east of the situation consistence or consistence or consistence of the situation
Who is this actor?		المحافظة المحافظة والمحافظة المحافظة ال	and the sign of the second
Cont	cent		
Core	Semantic Cat. Style Conversational	Iconic Element	Syntactic Cat. Indexical
	Tarvor Bu official		
	Modality Question	nil	U. A.
this actor	Topic Argument	arm extended and index pointing at person in picture	Conventional R1 .
What <u>is</u> his name?	Comment Relation Cluster	nil	U. A.

Picture Characteristics

Complexity Persons Objects Conventional El.
Indexical El. Background Ideographemes Graphic Symbols Actions Total

1		
2	pictures, billboard	1
	arm extended, index at picture	
1	m.o.	
0		
\cap		

Type of Picture
non-ideographemic

Level of Complexity
C1



Catherine et Paul dessinent 17 - 19 - 21 - 22



(7 - 21)

L'oeil droit est f	ermé.		
The right eye is c	losed.		
Co	ntent	Medi	ism
Core	Semantic Cat. Style Conversational	Iconic Element	Syntactic Cat. U. A.
	Modality Assertion	nil	U. N.
The right eye	Topic Argument	arm extended point- ing with chalk to eye	Conventional R1
is closed (a, b)	Comment Relation Cluster	closed eye	R3 L1

Complexity Persons Objects	1 2 drawings of head and eye	Type of Picture non-ideographemic
Conventional El. Indexical El. Background Ideographemes Graphic Symbols Actions Total	1 arm extended pointing with chalk 0 1 blackboard 0 0 1	Level of Complexity Cl



Le Matin. 9 - 17 - 13 - 14



(15 - 14)

d he shaves.		F date et an established de depresentation de proposition and established and	ner kallu. Arruiti ulemekalesti, tekuterini, astitakteen valaustat takipi nee espensessa vii kusariikun, panasiikussite	
	Content	Med	lium	
Core	Semantic Cat.	Iconic Element Syntactic (
	Style Narrative	m.o.	Interference	
	Modality nil			
Mr. Thibaut He	Topic Argument	man	R1	
shaves	Comment Relation Configuration	action of shaving	R2	

	Tronic ollaracocition	
Complexity		Type of Picture
Persons	1	non-ideographemic-
Objects	2 shaving cream, razor	
Conventional El.	0	Level of Complexity
Indexical El.	1 m.o.	C1
Background	0	
Ideographemes	0	
Graphic Symbols	0	
Actions	1 shaving	
Total	5	



Total

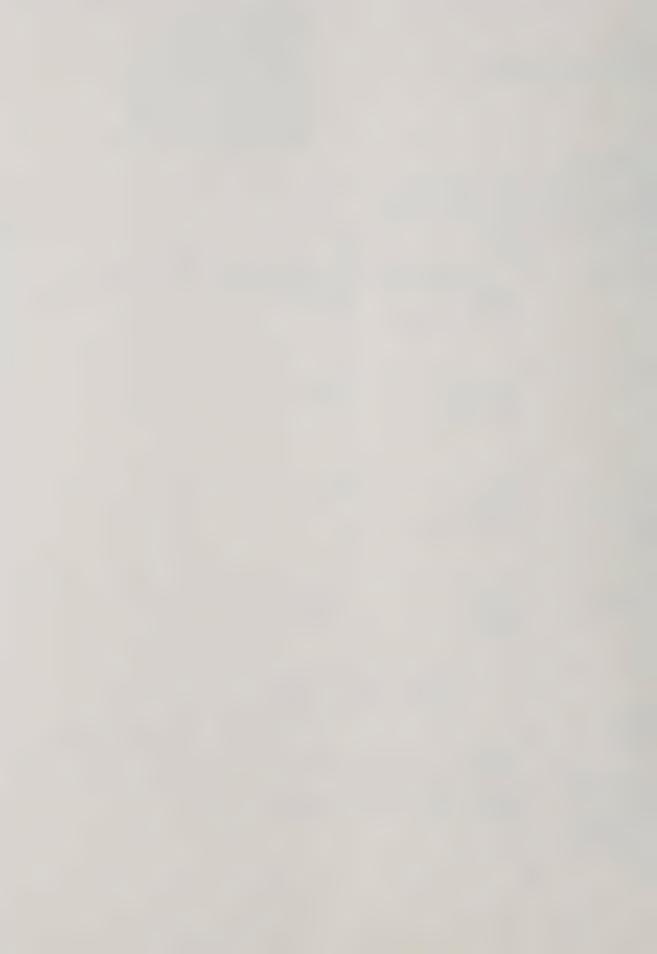
(13 - 23)

-	Parameter State Control of the Contr			
parce	Citten	foit	f 2 . 2	guiourdlhus
I. CT. CC	yu LL	Lall	TLOIG	2111011nd lbus

because it is cold today.

beginstern experience and TO TO COT	coday.			
Content		Medium		
Core	Semantic Cat.	Iconic Element		
	Style Conversational	nil	Syntactic Cat. U. A.	
	Modality Assertion	nil	U. N.	
Wear your coat (a> b)	Topic Relation Configuration	nil	U. A.	
it <u>is cold</u>	Comment Relation Cluster	people heavily clad	R3	

			ricture characteristics		
C	Omplexity Persons Objects	4	leafless tree, heavy clothes, window,		Picture deographemic
	Conventional El. Indexical El. Background Ideographemes Graphic Symbols Actions	1	snow arm extended, index pointing girl's hands against windowpane Street scene	Level of C3	Complexity



29 La maison. 1 - 3 - 4 - 7



(3 - 4)

A quel numéro? (de	meurez-vous?)	The second secon	THE AT THE PROPERTY OF THE PROPERTY OF THE PARTY AND THE PARTY OF THE
at what number? (do	you live?)	and a simple from the state of the same and the form information and substitutes are continuously as in the same	
Con	tent	Med	ium
Core	Semantic Cat. Style Conversational	Iconic Element	Syntactic Cat. Indexical
	Modality question	question mark	graphic symbol
You <u>live</u> (a, b)	Topic Relation Cluster	door of the house	R1 L2
at what number?	Comment Delimitation of place	number indicator over door	R1

	Picture Characteristics	
omplexity	Ticonie onaracociibores	Type of Picture
Persons	2	ideographemic '
Objects `	2 door, number plate	_ *
Conventional El.	0	Level of Complexity
Indexical El.	1 m.o.	C2
Background	0	
Ideographemes	1 balloon	
Graphic Symbols	1 question mark	
Actions	0	
Total	7	



30 A la poste 17 - 10 - 9 - 13



(20 - 9)

J'ai une lettre dans	s mon sac depuis deux		
I have had a letter	mon sac depuls deux	jours.	
	in my purse for two d	ays.	
The state of the s	tent	Med	ium
Core	Semantic Cat.	Iconic Element	Syntactic Cat.
	Style Conversational	m.o.	Indexical
	Modality Assertion	nil	U. N.
I have had a letter	Topic Relation Cluster	pulling letter out of purse	R2 L2
for two days	Comment Delimitation of time	calendar, two pages removed	R1 .

Picture Characteristics

omplexity
Persons
Objects
Conventional El.
Indexical El.
Background
Ideographemes
Graphic Symbols
Actions
Total

7	·
3	purse, letter, calendar
0	
2	m.o., calendar pages
0	
1	balloon
2	23, 2 jours
1	taking letter from purse
0	

Type of Picture
ideographemic

Level of Complexity
C3



APPENDIX B

Directions to Students



APPENDIX B

I. <u>Directions for Interpreting Pictures in Isolation</u>

This series of pictures will be shown to grade seven students to investigate the factors involved in interpreting pictures.

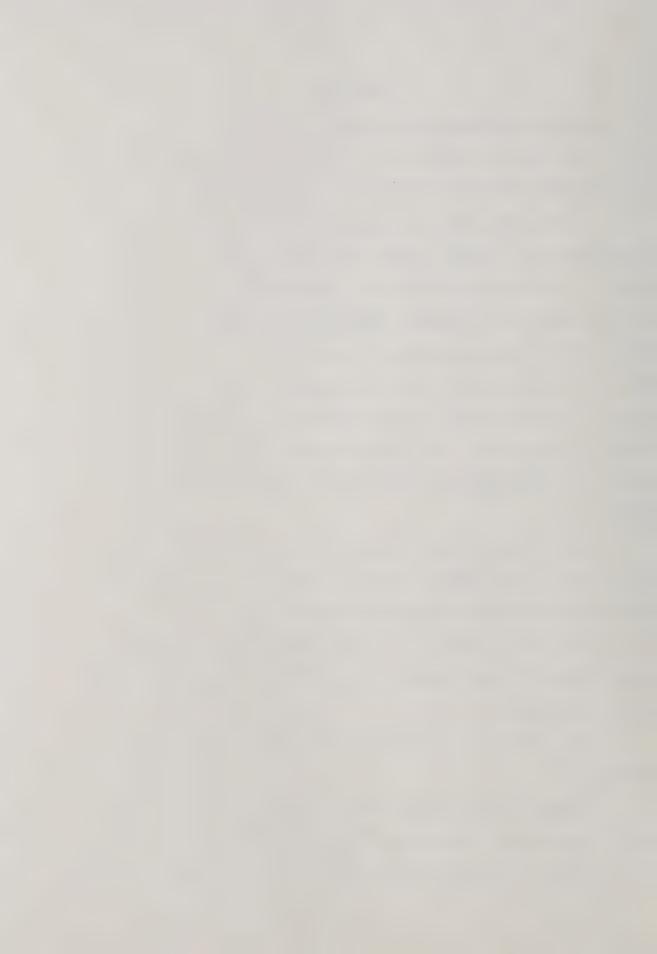
In this first group of pictures, you will be interpreting single pictures. You will, first, hear a buzzer which sounds like this (). When you hear this buzzer a picture will be shown to you, on the screen, for ten seconds. After the ten seconds for viewing the picture have elapsed, you will hear the word "write". When you hear the word "write", you will have twenty seconds to write your interpretation. If you are ready to start writing before you hear the word "write", you may do so. Stop writing when you hear the buzzer for the start of the next picture even if you are not finished writing your answer.

The next four pictures that you will see are labelled A, B, C, and D on your answer sheets. You may look at your answer sheets now. These are examples and are not part of the research.

Let us now do example A. You will not be asked to write the interpretation for this example, as it is already given on the answer sheet. Let's begin.

(Show picture A, ten seconds for viewing, twenty seconds for writing.)

In example A you heard the buzzer and were given ten seconds to look at the picture. When you heard the signal "write", or before if you were ready, you could have written the following possible inter-



pretation: "Would you fill this form, please?" Notice that you have to place your answer next to the corresponding letter or number, in this case next to the letter A.

Let's do examples B, C, and D in the same manner. You will not have to write the answer for picture B as it is given on your answer sheet. Write the answers for C and D.

(Show B, C, and D.)

A possible interpretation for picture B could be: "Do you live in Paris?"; for picture C: "Miss Smith takes the elevator."; for picture D: "Have a seat, please."

Are there any questions?

Now, let's begin.

II. Directions for Interpreting Pictures in Context

In this next part you will be shown four pictures that form a sequence.

The first time you see the story you will not be required to write. You will be given four seconds to view each picture in the sequence. This sequence will be shown to you a second time. You will hear the buzzer and you will have six seconds to view the picture. Then, you will hear the word "write", and you will have twenty seconds to write your interpretation.

We will now practise one example. Write the interpretation for each picture in the appropriate space. In this case it will be A, B, C, and D.

Are there any questions?

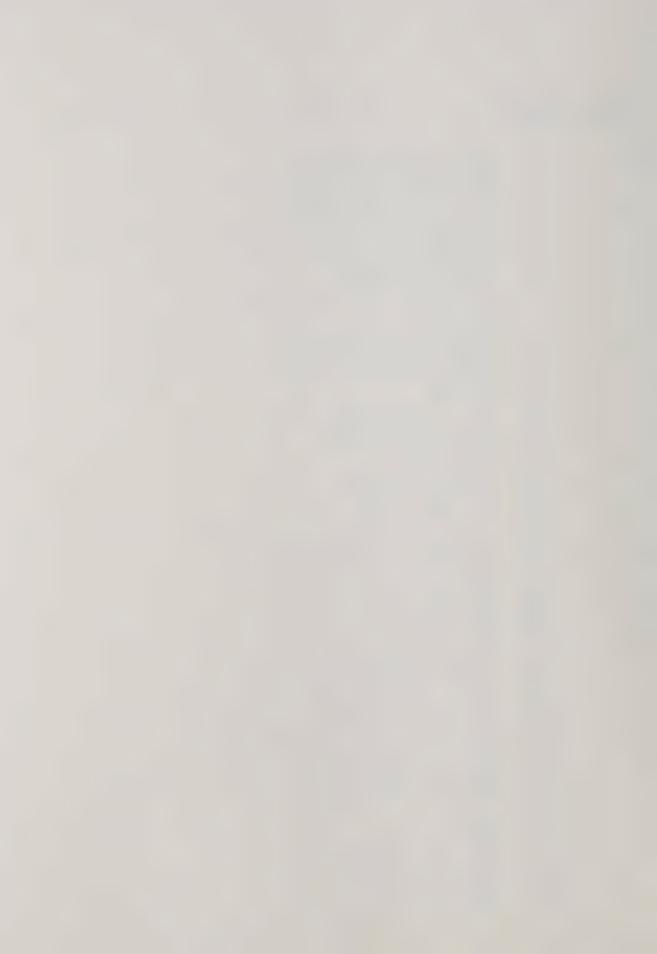


APPENDIX C

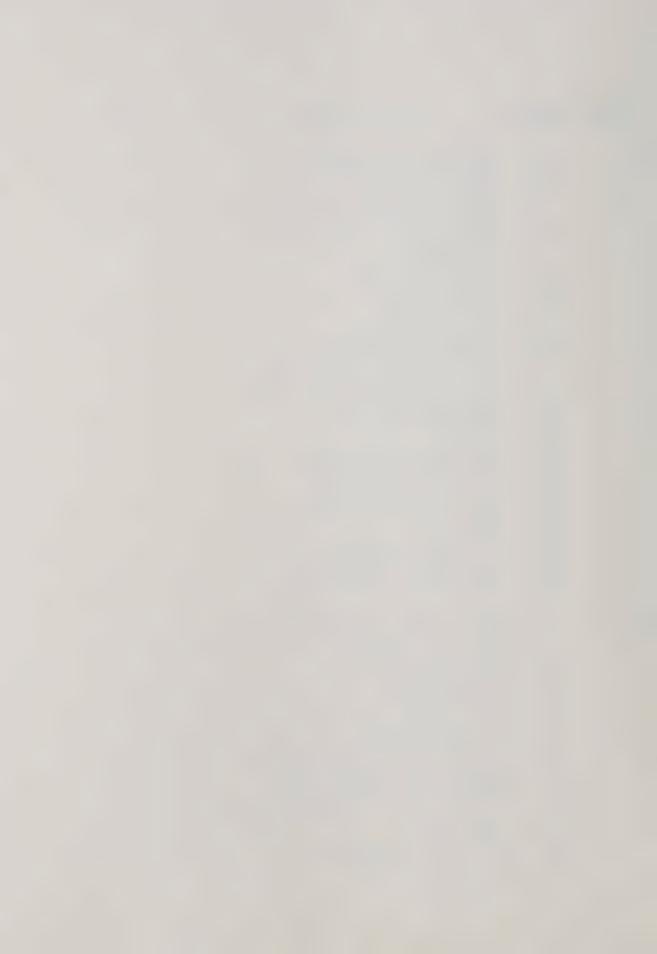
Coding of Students' Responses



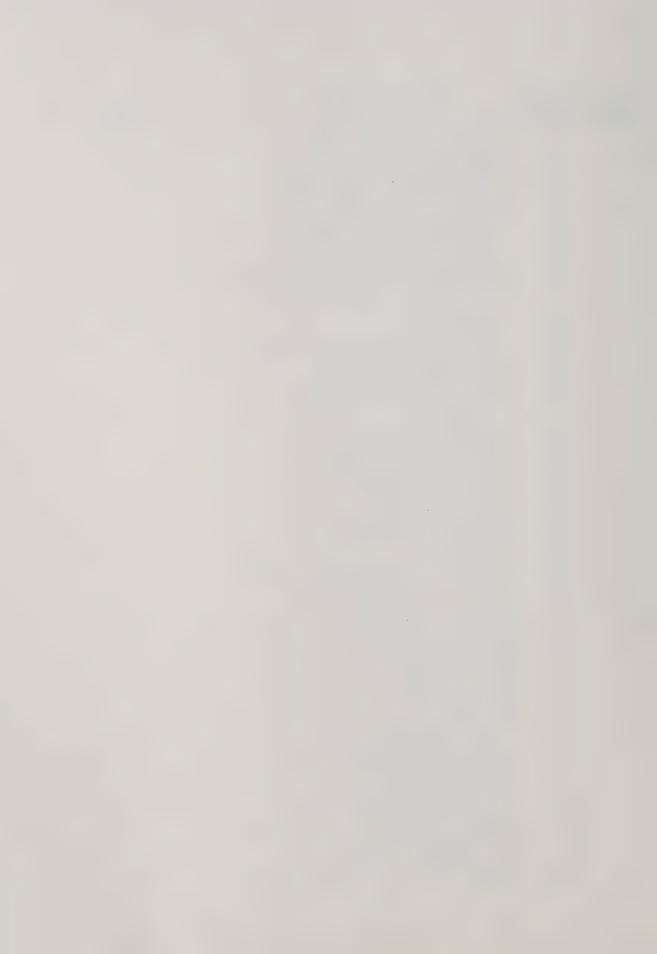
Student Number	Picture Number	Student Response	S	Cod M	ing T	C
A1 - 1	1 2 3 4 5 6 7 8 9	It's a surprise party May I see the sports page? There might be a lineup at the zoo Miss Jones is late again. Jake looks like his father. Would you like to buy a new product? My purse looks nice with my new coat. This shop is neat. Should I marry him? The fountain is a busy sport in the	0 1 1 0 1 0 1	0 1 - 0 0 1 - 1	0 0 0 1 0 - 0 0	0 1 1 0 1 0 0
	11 12 13 14 15 16A	summer. May I show you to your table? Will you wash my blanket? Aren't the children coming? Would you bring me a menu? How much? They are on the phone, Bill?	1 1 1 1 1	0 1 1 1 0	0 0 0 1	0 - 1 1 1 -
	16B 16C 16D 17A 17B 17C	Is her number 49.43? My money won't come out. Wrong number? I drew the teacher! Where are her eyes? I'll show you how.	1	0	0	0
	17D 18A 18B 18C	See! That's better! I wonder if Jake made school on time? He should be getting home soon! Hes not home; I'm worried!	1	1	0	0
	18D 19A 19B	Maybe he's dead. You must have the wrong house. He was here but he left.	1	1	0	0
	19C Oh! come in! 19D I'm glad you found him! 20A I have so much work to do! 20B Maybe I should do the dishes? 20C Or clear the kids room? 20D Now, that looks better! 21A Your children aren't in here! 21B They aren't in the playroom either!	I'm glad you found him! I have so much work to do! Maybe I should do the dishes?	1	0	010	
		1	1	0	0	
	21C 21D 22A 22B	Where could they be? Maybe they went home? Lets go to the meat market! Come on!	1	1	0	0
	220 22D 23A 23B	There it is! What would you like Bill? Come in Miss Jones! What would you like?	1	0	0	1
	230 23D	Eggs are on sale! The milk is about all gone.	1	0	0	0



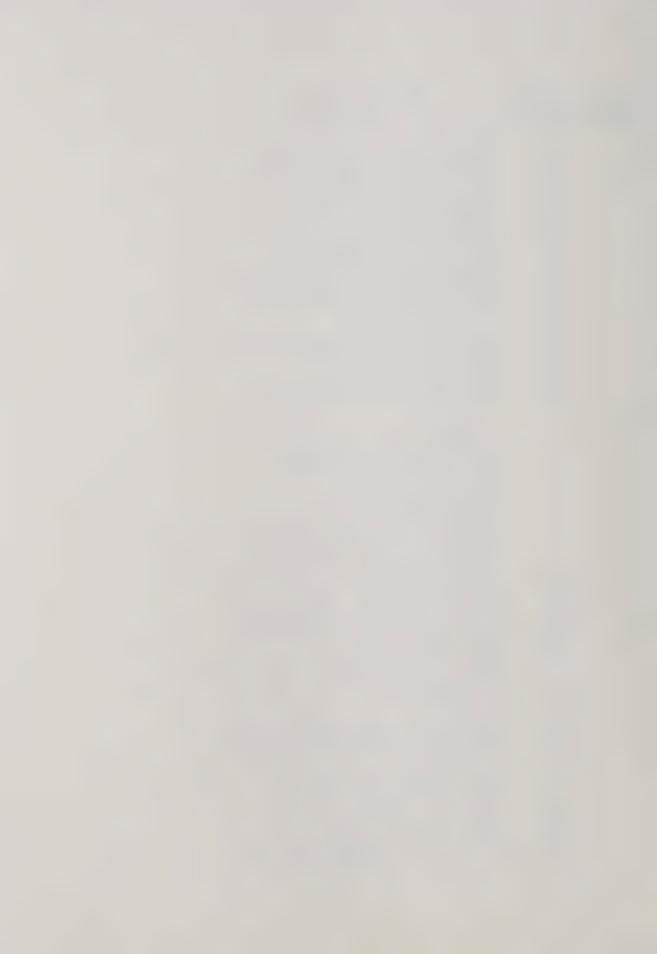
Student Number	Picture Number	Student Response	S	Cod	ling T	C
	24A 24B	Where is my good linen? Oh, she's going to be mad!				
	24C 24D 25A	Did you take it? Put it all back! Would you like to go to a show?	1	1	0	0
	25B 25C 25D	Look at him. Who is he? I don't know.	1	1	1	1
	26A 26B 26C 26D 27A 27B 27C	Look at my picture. It has no eyes! Let me put some. Know he's blinking! Oh, another hard day! This should make me feel awake! Know for a shave.	1	0	0	0
	27D 28A 28B	I'm so tired I could fall asleep! Where your heavy coat! This one?	0		0	0
	28C 28D 29A	Yes, it's cold out! Don't forget your mittens! Do you live over there?	1	1	1	1
	29B 29C 29D 30A 30B	No, I live over that way. What is your suite number? Number 13. Go mail this parcel!	1	1	1	1
	30C 30D	Oh, a letter from Jake. I better write back to him! Where can I find a mail box.	1	1	0	0
A1 - 2	1 2 3 4 5 6 7 8 9 10 11 12 13	Sally is putting candles in the cake Look what happened to that car yesterday Bless all my friends Would you come in Let's play house Come in please I put my perse on my arm Our attic is durty I will wright a letter to my parents Have you ever seen a funtine Would you like a table mandam I found your old dress in the trunk The are two fugiers boy and ages on the Black board I would like to order now How much is the book	0 1 0 1 1 0 1 0 1 0 1	0 1 0 0 0 1 - 0 0 0	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0



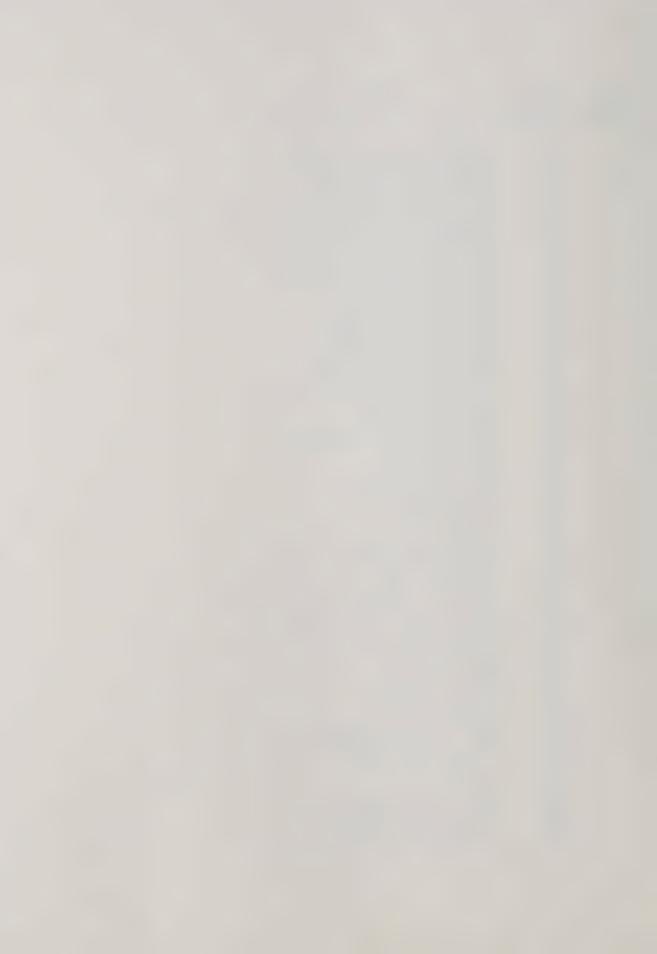
Picture Number	Student Response	S	Cod M	ling T	С
		<u> </u>	1,1	1	
16A	Its time to phone my mother				
16B	Her number is 49-43				
16C	Now the operator is to dile	1	0	0	0
16D	Hello is mother there				
17A	Here is a picture of you				
17B	My eyes are not on the puctire				
170	I will draw another one				
17D	Now I'll put the nose in and moth	1	1	1	0
18A	Every body is going to the crise				
18B	Now the crice is over and everyone going				
18C	Its closed now				
18D	It's not open till the 1 of may	1	1	1	0
19A	Come in sir and sit down				
19B	Hello Miss Brown come in				
19C	Come in Mr. and Mrs. Thomson				
19D	Let me take your coat and hat Miss				
004	Thomson	1	0	410	MOS
20A	My mother is always clean up				
20B	First she washes dishes				
20C	Then clean my bedroon	0	٦	0	0
20D 21A	After its all clean up	0	1	0	0
21B	I like your house				
21C	My room is always messy This is our bead room				
21D.	I'll buy it	1	1.	1	0
22A	How much is a pound of that meat	-l-	-l-	-L	V
22B	Come lets go to the park				
22C	Could I see you for a minit	7.	0	0	0
22D	Wait hear and I'll buy a cake				Ŭ
23A	Come in Mrs. Baker				
23B	Here is some new stock of foods				
230	And fresh eggs				
23D	Here is our las bottle of milk	1	0	0	0
24A	July come here				
24B	Yes mother				
24C	I'll put it up here folded				
24D	Could I help you. Don't mes them	1	0	0	0
25A	Lets go to the show				
25B	Look what showing				
25C	Would you like to see this one	1	1	0	0
25D	I don't know witch one to see				
26A	Here is a picture of you				
26B	No it is no I have eyes	7	~		2
26C	Well I will draw sume in ok	1	1	0	0
26D	finish drawing-eye closed/open				



	Picture	Student Response		Codi	ng	
Number	Number		S	M	T	C
	27A 27B 27C	Tim to shave First ot put sop on my wiskes This to use the razer blade				
	27D 28A 28B	The to shave I would like to buy a coat I'll try it on.	0		0	1
	28C 28D 29A 29B	Now to show people my coat I'll buy a pair of gloves Hello peater cane and I'll show you See how wide the streets are	1	1	0	0
	290 29D	This is wher I live I live in number 13	1	0	1	1
	30A	Would you take this parcil ove there p	leas	se		
	30B	Time to mail a letter	-	~	^	0
	30C 30D	I'll mail it on the 23 Now I have finished mailing it	1	1	0	0
A1 - 3	1	The candles must be lite before he				
		comes.	1	0	1	1
	2	What an interesting story!	1	0	0	0
	3	To be alone is, is to be sad.	1	1	0	0
	4	Oh, I hate that girl!	0	0	0	0
	5 6	Hallowen'en is Over isn't? Could I interest you to buy insurance?		0	-	_
	7	An old red purse is on he arm	0	Õ	0	1.
	8	The attic is ful of old stuff.	1	-	0	Õ
	9	Why is she write a story on old people	.1	1	1	0
	10	A Beautiful Park	0		0	0
	11	Good morning Miss. Can I help you	1	1	0140	ents
	12	When will I be big enough to wear it	1	1	0	0
	13	Which is boys room which is girls	1	1.	0	0
	14	May I have a menu?	1	1	1	1
	15	What a beautiful girl on the cover of this maginize	1	0		-
	16A	What time do you me at home I better phone				
	16B	I'll phone her her number is 49-43				
	. 16C	The phone is broken, my chance word & come out	1	0	0	0
	16D	Hello, Mother, what time is it				
	17A	Isn't that a good picture				
	17B	Where are the eyes				
	170	His head is like this not flat				
	17D	I'll put in the eyes, nose, eyebrow, but something missing	1	1	1	1



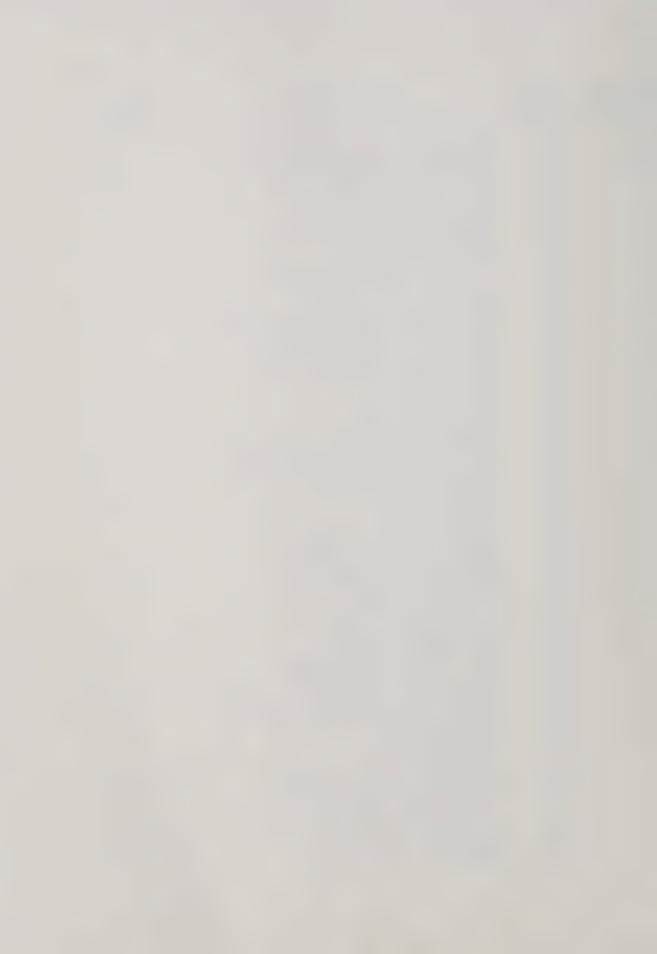
Student Number	Picture Number	Student Response	a	Codi		
Contract of the Contract of th			S	M	<u>T</u>	C
	18A	I must get to work on time				
	18B	At 5:00 it will be over.				
	18C	Everyone goes past here.				
	.18D	May is very wind month.	1	1	0	0
	19A	I'am interested in buy your apartment.		-Au		V
	19B	I'am his wife can I come in				
	19C	Please od it your aparment to look at				
	19D	You first Debbie	1	0	-	_
	20A	All that work I have to do.				
	20B	Washing dish!				
	20C	Cleaning the kids room.				
	20D	Cleaning the kitchen.	1	1	1	1
	21A	Don't mess the place!				~
	21B	What a mess, clean it up.				
	210	Why is your room a mess.				
	21D	I don't know, I must go. Bye.	1	1	0	0
	22A	Meat cost a mint.				
	22B	I'll walk you home, Bob.				
	22C	That butcher is very happy.	1	0	0	0
	22D	wait here, Bob				
	23A	Good morning, Miss				
	23B	What would you like.				
	23C	6 eggs, Please.				
	23D	1 milk, too,	1	1	1	1
	24A	I must put the buisse away.				
	24B	What is she doing.				
	24C	I'm just putting some lines away.				
	24D	Colore the door.	1	1	1	1
	25A	Come to the cirrcwa Debbie, with me.				
	25B	Look at some of the senses.				
	25C	Look at this one.	1	0	0	0
	25D	I don't know if I should				
	26A	Nice isn't it.				
	26B	Still no eyes.				
	26C	One eye closed.	1	1	1	1
	26D	One eye open.				
	27A	Have to wash up before I go.				
	27B	Have too have a clean face.				
	27C	A shave won't hurt.				0
	27D	Oh, NO!	0	deretta.	0	0
	28A	I want that coat.				
	28B	May I please, mother?	7	7	0	0
	28C	IC TOOK TING a TAME and	1	1	0	0
	28D	Still better take gloves.				



Student Number	Picture Number	Student Response	S	Coc	ling T	С
	29A 29B 29C 29D 30A 30B	Where do you live Across from the cinema. What address is it It's no 13, see. Take this to the post office. I for got these letter.	1	1	1	1
	30C 30D	Only 2 days to do it, too I'll sent it air mail.	1	1	0	0
A1 - 4	1 2 3	Oh no! what happened? Let me have that newspaper. I wounder what the other ladies are	1	0	0	0
	4 5 6 7 8 9 10 11 12 13	doing. What happed to the living room, Lets play House Would you please come in. There's my purse. I think I'll go outside. Those boys and girls are lazy. What a beautiful park. What would you like madame. What are you doing Susan. I wounder what their doing in there. Waitress would you come here and	1 0 1 1 0 0 0 0 1 1 1	1 0 0 0 1 0 0 1 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	15 16A 16B	take my order. How much is the newspaper. Should I phone my wife. Whats the Phone number.	1	0	0	0
	16C 16D 17A 17B	I put in the wrong change. Hello what are you doing. "Look at your face," Jane. There is no eyes in me.	1.	0	0	0
	17C 17D 18A	I'll show you how to draw a face. There it is. I shouldn't have let them ride their bikes. There they come.	1	1	0	0
	18C 18D 19A 19B	Where did they go. It's been along time Joe. Come on in Jim. Wait I'd like you to meet my wife, Joan.	1	1	0	0
	19C 19D	Well don't stand there, come in. Hi Jim were are your children.	1	0		



						TOT
Student	Picture	Student Response		Cod	ing	
Number	Number		S	M	T	С
			The second second	1.1		0
	20A	Those ladies have a lot of work to do	•			
	20B	She's washing our dishes.				
	200	Joan is cleaning the counter.				
	20D	They shure are busy.	1	0	0	0
	21A	Hi, come on in.				_
	21B	Those children are a nusense.				
	21C	Take off your coat.				
	21D	Thats no problem.	1	1	0	0
	22A	I wounder if he cheeted me.				
	22B	Hi, whats that you have.				
	22C	You cheeted us.	1	0	0	0
	22D	He's going to give us more cheese.				
	23A	Doing your shopping? Yes.				
	23B	You'd like some chocolate bars.				
	230	No, six dozen eggs.				
	23D	Some milk too.	1	1	1	1
	24A	Give me that doll.				
	24B	No, why should I.				
	24C	Go help your sister.	_			
	24D	Take some clothes and put them away.	1	1	0	0
	25A	Whoud you like to go to the show?				
	25B	I wonder whats playing.	7			
	250 250	Oh, Runaway Joe.	1	0	0	0
	25D 26A	Whats that like.				
	26B	Theres your face, Joan.				
	26C	Theres no eyes in my face.	1	0	0	0
	26D	Did you have to make me blink. Theres your other eye then.	"L	U	0	0
	27A	I'd beter wash up.				
	27B	Man that water is hot.				
	27C	I'd better shave to.				
	27D	That blade is to sharp.	0		0	0
	28A	Can I get this coat mother.				· ·
	28B	Oh no, it's to small on me.				
	28C		1	0	0	0
	28D	Mother can I go and play with Joan.				
	29A	Whats your name.				
	29B	Whould you like to come to my				
	~,2	appartment.				
	29C		1	1	1	1
	29D	My Appartment number is (13).				
	30A	I have to mail this, could you wait.				
	30B	There is my letter but no stamp.				
	30C	December 27. Oh no!	1	1	0	0
	30D	There we go, just my luck.				
	2					



Student Number	Picture Number	Student Response	S	Cod	ing T	С
A1 - 5	1 2 3 4 5 6 7	"Did you know we were out of matches" "Did you see the latest news?" "My these line ups are long!" "That did it! I'm leaving." "I'm pretending to be an adult!" "Do come in Mr. Jones." Mrs. Jones taking her purse off her	1 1 0 1	0 0 1 - 1 0	0 0 0 0 0	0 1 1 1 0
	8 9	hand. Peter examining an abandoned room. "I feel guilty for not writing to my	0	0 -	1	0
	10 11 12 13 14 15 16A	parents." A beutiful day at the park. "Do come with me, please." "Mommy, couldyou hang up my cloths." "What did you do here?" "Waitress, could you pass me a menu?" "I think I'll buy this magazine." "I should phone my wife and tell her	1 1 1 1 1	0 - 0 1 1 1 0	1 0 - 1 0 1 -	0 0 0 0 0 1
	16B 16C 16D 17A	why I'm late." The man dials the no. 49.43. He presses the button. He talks to his wife. "Look at the picture I drew."	0	0	0	0
	17B 17C 17D 18A	"Where are the eyes"? The girl draws another circle. She adds the eyes and other details. The man looks sad because he has to	0	1	1	1
	18C	go to work. He thinks of closing time. He thinks of all the people and directions and no. of times he's				
	18D 19A	been there. He thinks of Mothers day in May. "Do come in please" the hostess says to the man.	0	0	0	1
	19B 19C 19D 20A	The hostess welcomes his wife. The couple comes in. The lady wonder how she can get all her work done.	0	0	44	eno.
	20B 20C 20D	She decides to do washing dishes. She thinks of cleaning a room. She appears happy after most of her works done.	0	0	0	0



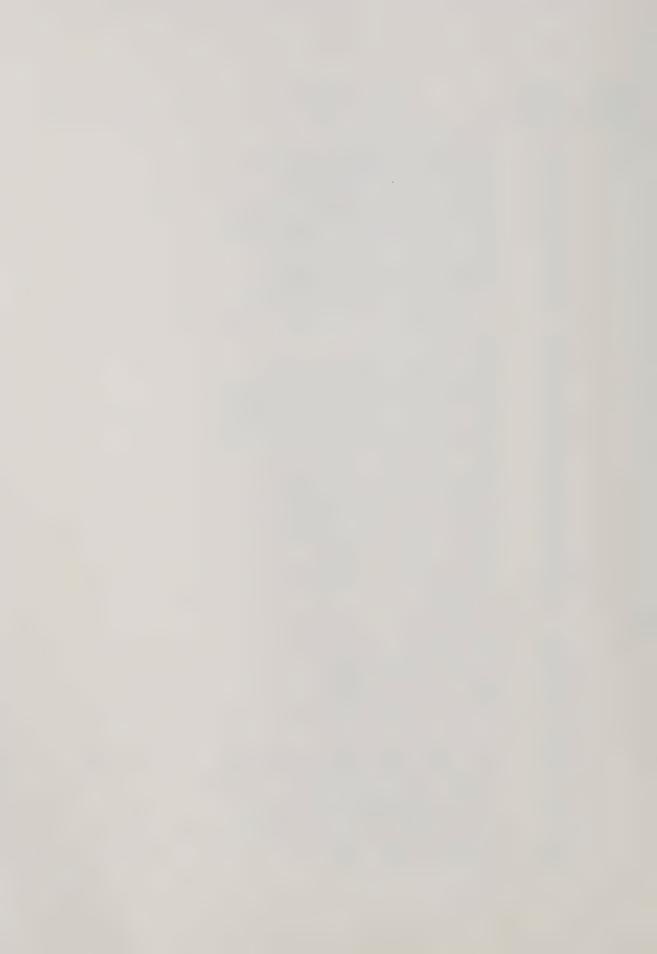
Student Number	Picture Number	Student Response	S	Cod	ding T	C
				1'1		C
	21A	"This is our dining room".				
	21B	"This is our children's room".				
	21C	"Would you like to see more?"				
	21D	"No, excuse me, but I have to leave."	1	1	0	0
	22A -	The lady thinks of buying meat of Sat.				
	22B	She invites her son along.				
	220	She points to the bucher store she's				
	000	going to.	0	0	1	1
	22D	She points to the meat she's buying.				
	23A	"Hello, do come in please".				
	23B	"What would you like here?"				
	230	"I'll take six eggs".				
	23D	"And a qt. of milk please."	1	1	1	1
	24A	"Would you help me?" says the mother.				
	24B	The girls say "With what, because I				
	0.10	want to play"				
	240	"I'd like you to help me put this away	• 31			
	24D	"But you can tidy it up in here."	1	0	0	0
	25A	The boy asks, "would you like to go to				
	250	the movie?"				
	25B	They go to the entrance and look at				
	25C	The boy eaks "De you know who this				
	200	The boy asks, "Do you know who this actor is?"	0	1	7	7
	25D	The girl says no.	U	J.	1	1
	26A	The boy says he drew a picture of a				
	~011	boy winking.				
	26B	The girl shows there are no eyes.				
	26C ·	She draws in one eye closed.	0	0	1	1
	26D	And she draws an open, which shows a			edip	- Au
		boy wink.				
	27A	A man pours water into a sink.				
	27B	He then applies shaving cream on his				
		face.				
	27C	Next he picks up a razor, inserts it				
		into shaving apparattus.				
	27D	110 011011 01100 0 0 0	1		1	1
	28A	The father says for the little girl				
		to put on her coat.				
	28B	She protests, and says she doesn't				
	0.4.5	need a coat.				
	28C	The father shows it is cold and every-	0	0	7	1
	odn	body is wearing a coat.		U	1	1
	28D	She puts it on, and he hands he gloves.				



Student Number	Picture Number	Student Response	S	Co M	ding T	g C
	29A 29B	A man asks another man questions on where he was. The man shows the direction to the	e de la composition della comp			
	29C 29D 30A	building he went. The man asks the no. of the elevator. The man points to the no. 13. A lady asks another lady to mail a	0	1.	0	1
	30B	parcel for her. One lady finds out she forgot an envelope.				
	30D	Two day ago she remembered something. She had mailed the envelope.	0	0	0	0
A1 - 6	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16A 16B 16C	Please light the candles, Mary. Could I please see this page? There they are in streets. She is leaving the doctors. How do you like my costum mother? Please, come in! She is taking her purse to pay money. He brought some things. They are paying a bill. People going here and there. What would you like, Madame? Mom, the curtains fell from my room. What are your names? I would please like a drink etc. I will buy this paper. Hello. What time is it? dialing a phone number. calling for the operator	1 1 1 1 1 0 0 0 1 1 1 1 1 1 0 0	1 1 1 0 0 0 0 0 0 0 0 1 1 0 0	1 1 0 1 0 - 1 1 0 0 0 - 0	1 0 1 0 - 1 0 0 0 0
	16D 17A 17B	talking to each other. I draw a face, look! "Where are the eyes," she said.		Ü		· ·
	17C 17D 18A 18B	drawing the head first. drawing the eyes, nose, and thinking where to go thinking that the people are coming back.	0	0	0	0
	180	the gate is closed, all the people are gone				
	19A 19B 19C	looking at the date where it will open He says if the man is in his office. She is greating her. She lets the people come in.	0	0	1	0
	19D	She tells the people that they can come in now	0	0		



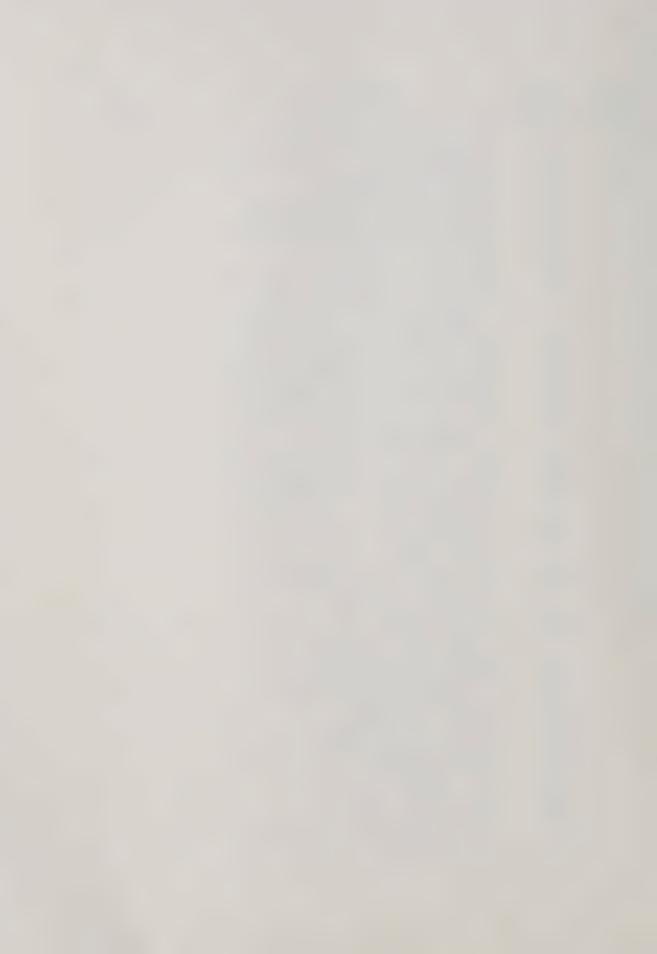
Student Number	Picture Number	Student Response	C		ding	
			S	<u>M</u>	<u>T</u>	C
	20A	Everbody is working.				
	20B	her mother is doing the dishes.				
	20 C	cleaning the room for her.				
	20D	cleaning the kitchen.	0	0	1	0
	21A	We are having people for dinner.	U	U	1	0
	21B	She has to clean her sisters room.				
	21C	She is going away.				
	21D	She saying I'll be back at 9:00	0	1	0	0
	22A	thinking to go to the store.	O	-1-	U	U
	22B	bringing her brother at school.				
	22C	she is going to the store with her				
		brother.	0	0	1	0
	22D	He wants a cake.	U	U	1.	U
	23A	She is at the store.				
	23B	He says what would you like?				
	230	Would you like to have 6 fresh eggs.				
	23D	or would you like to have a milk jug.	1	0	0	1
	24A	She is calling his sister to help her.		U	0	1
	24B	her sister was playing with her doll.				
	24C	She says what to do.				
	24D	Her sister starts to help her.	0	0	0	0
	25A	He asked her to go to the show.	U	U	O	0
	25B	A good movie is playing he says.				
	25C	He look at a exciting picture	0	0	0	0
	25D	she said she hasn't have any money.	U	U	O	0
	26A	He says I draw a face.				
	26B	She says there isn't any eyes.				
	26C	He puts one eye in like if he was				
		sleeping.	0	0	1	1
	26D	He puts another eye in like if he is	0	0	"I.	ماد
	20D	blinking.				
	27A	He is going to shave himself.				
	27B	He first washing his face.				
	270	Then he gets the shaver.				
	27D	The he shaves himself.	1	_	7	1
	28A	Her mother wants her to wear a heavy	ala.		-la	ala
	LOA	coat.				
	28B	Then she says if she has to.				
	28C	Her mother shows her to the window.	0	0	7	0
	28D	Then when she has put her coat on her			olo	
	ZOU					
	201	mother gives her gloves. Where is alum street? he asked.				
	29A	He shows him the house and street.				
	29B		0	1	0	1
	29C	He asked, "what number is it?	~	-lo		-l-
	29D	He says, "number 13".				



Student	Picture	Student Response		Cod	ing	
Number	Number		S	M	T	С
	30A 30B 30C 30D	Her mom says to deliver a package. Then her mother gives her a letter to. She says that it will take 2 days. She is now going to deliver the package and letters	. 0	1	0	0
A1 - 7	1 2 3 4 5 6 7 8 9	A birthday for someone bying a paper identifying someone comming out the door to leave dressed up to be funny looking someone comming in or to the door a women's purse on her hand with glove statues of things saying not this person please a beautiful park.	0 0 0 0 0 0 0 1 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0 0 - 0 0	0 0 0 0 1 - 0 0
	11 12 13 14 15 16A 16B 16C	In paris a resterent a man showing a women to her seat thinking from the farms who is the gir in a resturent a man calling a waitres by or looking at the papers thinking what time wife said to be hom dialing the number four (4) purshing the button to get back his	0 s0 0	0 0 0 0	0 0 0	0 0 0 0
	16D 17A 17B 17C	dime two people speaking to each other on the phone starting a fase on the board she is asking where the eyes are. she starts him over by putting the	0	0	0	0
	17D 18A 18B	round of his face she finishes it off thinking of when he was on his trip thinking of the fun he had.	0	0	1	0
	18C 18D 19A 19B	thinking of all the trouble he had back to his job or home saying hellow or letting in. saying or shaking hands with the	0	0	0	0
	19C 19D	women letting two people in, man and women the man lets the young lady go first in the door	0	0	048	_



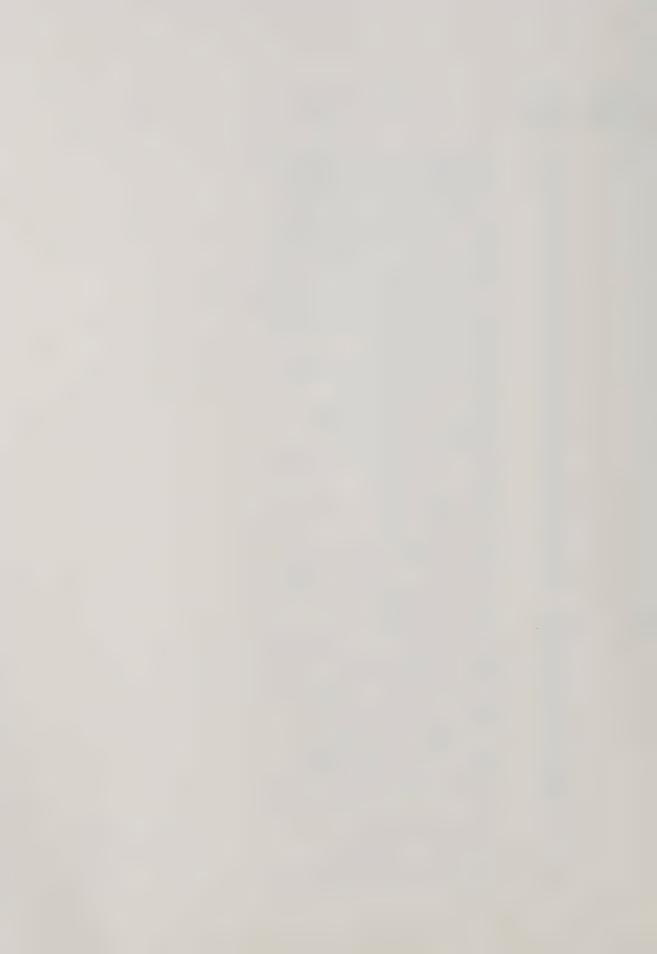
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Student Number	Picture Number	Student Response			ing	
210032002	170011001		S	<u>M</u> _	<u>T</u>	C
	20A	thinking of all the work that has to be done				
	20B	doing dishes first.				
	. 20C	then gathering the cloths				
	20D	taking a stain out of the cloth	0	0	0	0
	21A	showing the lady the dianing room	0			O
	21B	showing the bedroom				
	210	the women is thinking				
	21D	she says no thankyou, or it's very				
		hard to choose one	0	0	0	0
	22A	thinking the last time she bought heat here				
	22B	she is saying I'll take you there				
	22C	she points it out to him	0	0	0	1
	22D	she says I'll take you there myself				
	23A	letting the women into the store				
	23B	she doesn't know what to take				
	230	she wants six (6) eggs and is pointing them out				;
	23D	that jug of milk she says she wants	0	0	1	1
	24A	waying I must put these sheets aray				and up
	24B	girl thinks she wants he dool and				
	24C	the women says no I have to put the				
		sheets away				
	24D	the girl opens the door and the				
		women says no	0	0	1	1
	25A	want to go to the show in paris				
	25B	they deside to go to the art garer				
		and look a picture				
	25C	I like this one	1	0	0	0
	25D	she says I don't know which one I like I like them all				
	26A	he draws a picture with no eyes				
	26B	she says where are his eyes				
	26C	she puts one closed	0	0	1	1
	26D	and one eye opened				
	27A	going to wash himself				
	27B	washes his face & behind his ears				
	27C	ready to shave now	7		_	_
	27D	cuts himeself & it hurts	1	1000	1	0
	28A	nice coat this is				
	28B	the lady says try it on				
	28C	the girl takes the coat and goes to the window	0	0	0	0
	28D	the women says here are your gloves				



Student Number	Picture Number	Student Response		Coding				
NOTIOGI	Namper		S	M	T	С		
	29A 29B 29C 29D 30A 30B	the man says where do I go for he poins to which one he shall go he wants to know what floor it is on or what the number is he shows him (13) thirteen go & mail this for me please thankyou recieves the letter "bad news"	0	1	0	0		
	30D	wants to mail some letters back goes and puts them in the mail box to be delievered	0		0	0		
A1 - 8	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16A 16B 16C 16D 17A	lite up the birday cake did you see this Will you come with dinner with me What a day this is. this is a scar-crow hello whon't you come in I have to go to the bank Boy want a mess in the room I wonder if I would get married enjoy were evening out side. What do you what. Will you wash this. I wonder what they are doing You better make it good How much does it cost Do you know what time it is. I butto tell her I can't come She is not home were is she Hello were were you all the time You did not put on a month	1 1 1 0 0 0 1 1 1 1 1 1 1		000000000000000000000000000000000000000	1 0 0 0 1 - 0 0 0 0		
17B 17C 17D 18A 18B 18C 18D 19A	And were are is eyes? That is much better. That is more I it. time to get to work Bye see you later on I am to late I no Time to harvest the corn Would you please come in Hello how are you	1	1	0	0			
	19C 19D 20A 20B 20C 20D	Won't you come in Thank you very much Man what a hard time It would be fun to wash the dishes what an untide daver this is Now everthing is nice and clean	1	0	0	0		



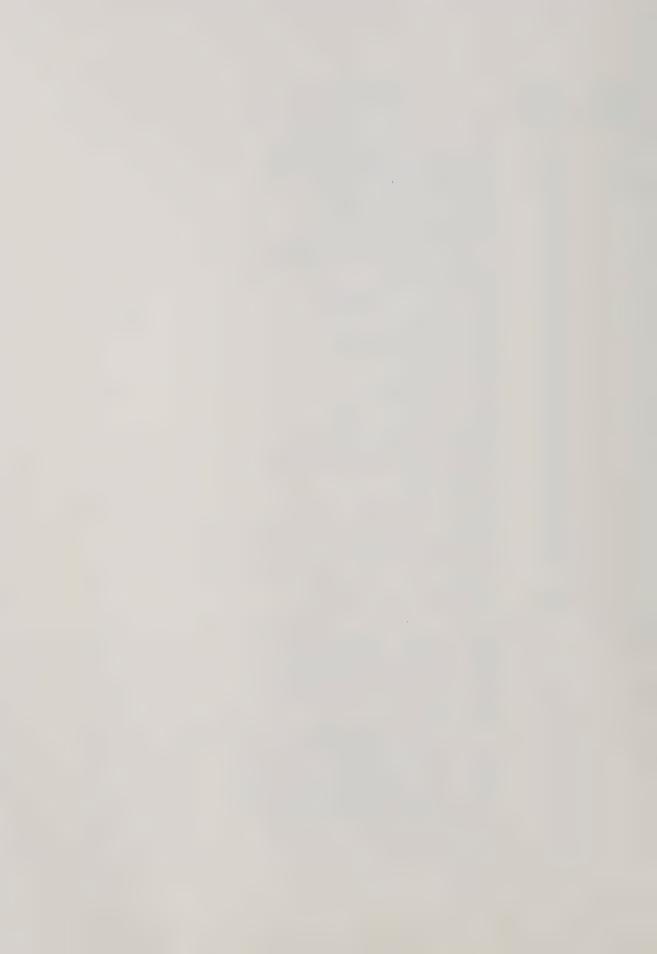
Student Number	Picture Number	Student Response	S	Cod M	ing T	С
	21A 21B 21C	this is the living room. and this is the big bedroom. and that is all the rooms		rate and the Comment	ethe	talannana. Vajun nigi yan yangam
	21D 22A 22B	I don't think I will buy it All what he wants is money Come I will take you to hill.	1	1	1	0
	22C 22D 23A 23B 23C	Here he is over there We wil go and buy something to eat What do you what do you want milk peas and bakind soad there are only 6 in a dozen	1	0	0	0
	23D 24A 24B 24C	and one qatuer of milk please That will be hard You can not take me doll away There it is all very nice	1	1	1	1
	24D 25A 25B	That is still dirty lets go in for a an hour do you know those people	1	0	0	0
	250 25D 26A 26B	Do you know that man No I don not know that man Where is eye bows They are is eyes	1	1	1	1
	26C 26D 27A 27B 27C 27D	there thats what I mean That looks even better doesn't it A man wash is hands The same man wash his ears A man who is going to shave Then the man shaves him self and	1	1	0	0
	28A 28B	cuts him self May I go outside I am going to put on my coat	1	449	1	1
	28C 28D 29A 29B	look at all those people outside Here are youre mitts Were in the big new aprembblock sweet right arcoss the street	1 13	1	1	0
	29C 29D 30A	were is the elevator? It is right over there Were could I mail this	1	1	0	0
	30B 30C 30D	How can I mail the letter It will cost 2 jours There now I can mail the letter	1	1	0	0
A1 - 9	1 2 3 4	I better hurry up "Look what is here" Oh I wish I was there I am finally out of the house	1 1 0	0 1 1 -	0 0 0	0 0 0 0



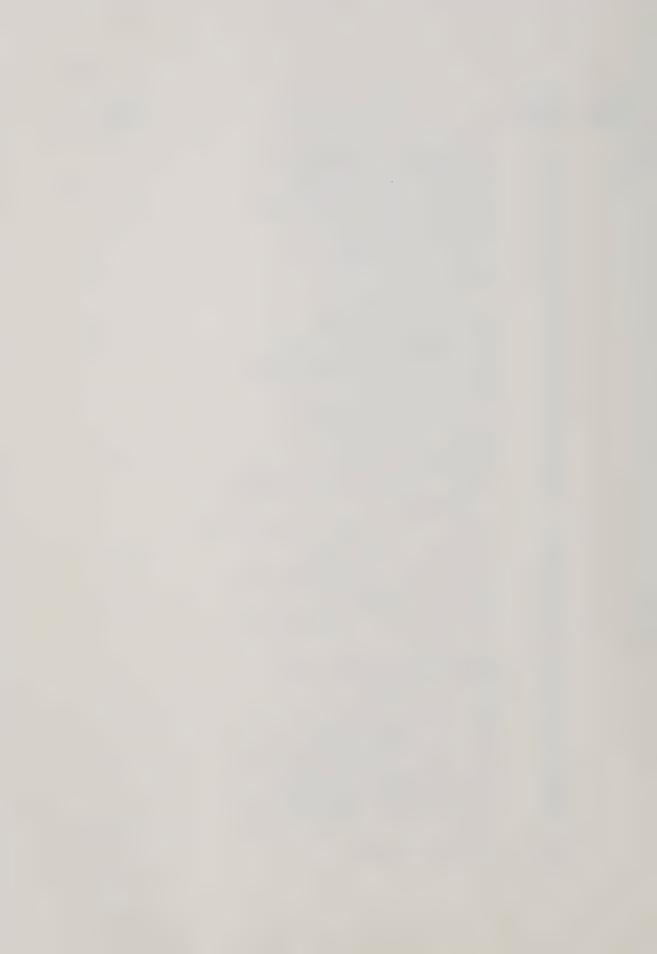
Student Number	Picture Number	Student Response	S	Codi M	ng T	С
	5	Don't I look funny	1	1	1	1
	6	"Hello, what do you want."	1	1	arch	**
	7	"I better pull my purse up."	1	1	1	1
	. 8	Not much in this room.	0	***	0	0
	9	Are they married	1	1	0	0
	10	such a lovely place fountain & trees	0		0	0
	11	"May I help you madame."	1	0	****	e+0
	12	Look what I found	1	0	0	0
	13	"Are you thosts"	1	1	0	0
	14	"Come here & wait on me"	1	1	0	0
	15	How much is this book	1	0	***	
	16A	"I better phone my wife because it is nearly six"				
	16B	Now I think I will				
	16C	Push to talk	0	0	0	0
	16D	"Hello, Mary, I won't be home for s supper."				
	17A	"This is you"				
*	17B	Where are my eyes				
	17C	"I am going to draw him"				
	17D	"I leave his mouth & maybe his eye				
		out"	1	1	0	0
	18A	It is almost work time				
	18B	"Now it is home time for supper"				
	18C	"Open the gates"	7	7	0	7
	18D	May 1st spring is here	1	1	0	1
	19A	"Hello may I help you"				
	19B	"Hello I am his wife"				
	19C	Won't you come in	7	0		
	19D	I am so glad you came	7	U		
	20A	"All my work today I'll never get it d	one			
	20B	"First to wash the dishes"				
	200	"Then to tody up the drawers"	1	7	1	1
	20D	Then to clean up this sink	J.,	20		_
	21A	"Hi"				
	21B	Oh look at this mess				
	21C	Do you have those troubles too?	1	1	1	1
	21D	But it is such a lovely house				
	22A	Oh no where is he				
	22B	Oh there you are come her now	1	1	1	0
	220	"We're going over there"				
	22D	"Now don't go away this time"				
	23A	Come in may I help you Would you like some groceries				
	23B	Would you like bome groots.				
	230	six eggs maybe l bottle of milk	1	1	1	1.
	23D	T DO COTO OT WITH				



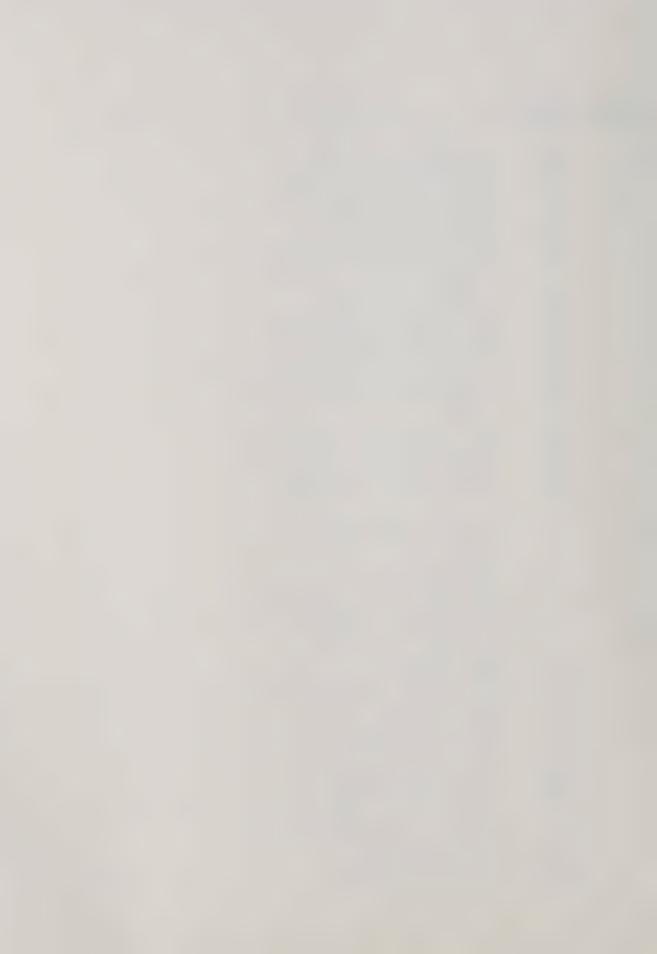
Student Number	Picture Number	Student Response	S	Cod M	ing T	С
	24A	"Oh did she take the blankets out aga		11	J.	
	24B 24C . 24D	I should take that doll away Now leave them in there				
	25A 25B	Okay you may have one Want to go to a show? Look whats playing	1	0	0	0
	250 25D	I like this one don't you? I don't know what one I like	1	1	0	0
	26A 26B 26C	"This is you" But where are my eyes				
	26D 27A	I'll make one closed And one open "Now to wash myself"	1.	1	1	1
	27B 27C	"Oh that feels good" "Now to shave"				
	27D 28A 28B	Ouch I cut myself Put on your rain coat This one daddy? Why?	0	***	0	0
	28C 28D 29A	Because it is raining Okay, "now put on your gloves" Hi Tom what's new	1	1	1	0
	29B 29C 29D	I live there Where do you live You live there hey!	1	1	1	1
	30A 30B 30C	"Would you mail this over there for me Oh I have a letter I will put it in my purse for a few) ¹¹			
	30D	days And then I will mail it.	1	1	0	1
A1 - 10	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	Susans decorating a birthday cake This is very stooped. She wishes she was grown up. She is pressing the door bell Bill is trying on dads cloths May I come in Miss Smith has just bought a hand bag he found some old clocks in the she is thinking about geting maried they are all wathing the fountion. where would you like to sit madame. can you please sew this for me jack and jill come hear please Menu please I think I will take this one	0 0 0 1 0 1 0 1 1 1 1 1 1 1 1 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 1 0 0 1 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0



Student Number	Picture Number	Student Response	S	Cod M	ing T	C
Amendment of the second of the		American State of the Control of the		1,1		C
	16A	he is going to dial 49.43				
	16B	he is going to talk to				
	16C	I will meet you ad three	1	0	0	0
	· 16D	he says goodbye and she says too			Ť	, ,
	17A	that looks good enough.				
	17B	look what she drew				
	17C	where are the eyes				
	170	she put in the eyes	0	0	1	1
	18A	to bad he died.				
	18B	I wish I was there				
	18C	it would have been fun!				
	18D	which way did I coaw	1	0	0	0
	19A	my husbands coming behind me.				
	19B	your wifes hear already comon in.				
	19C	maby you can come back soon.				
	19D	your back so soon.	1	0	0.00	Marking .
	20A	I've got somany things to do.				
	20B	I have to do the dishes.				
	200	clean up the house				
	20D	and wash the cabnets.	1	1	1	1
	21A	I cant set the table for you mom.				
	21B	what a mess it will take me years to				
		clean up				
	21C	sorry I have to clean up my brothers				
		room	7	~	^	_
	21D	well see you later mabe.	1	1	0	0
	22A	I have to go to the grocers today				
	22B	hurry up slow poke.	٦	0	0	0
	220	theres the grocer now lets nurry	1	0	0	0
	22D	You stay hear. I will be out in a				
	-0.4	second				
	23A	come right in madame				
	23B	whould you like any of these				
	230	I'll take 6 eggs.	٦	1	1	1
	23D	and a quart of milk	1	1.	7	.l.,
	24A	what are you doing				
	24B	you can't take my doll.				
	24C	help me put them away.	1	1	0	0
	24D	don't take any out for your doll.	ماد	ماد		V
	25A	Would you like to go with me				
	25B	that look like a good one				
	25C	but this is the goryest. can you	1	1 .	0	0
	057	come	als.	, Au	Ü	Ť
	25D	but I have homwork				



Student Number	Picture Number	Student Response	S	Cod M	ing T	С
	26A 26B	no eyes ha ha very funny What are eyes.				
	26C -26D	he is drawing an eye lash he is drawing an eye	0	0	0	0
	27A 27B 27C 27D	I think I'll shave my face. this lather is cool. he's taking his razer to save his face oche my poor face is going to be all	•			
	28A 28B	cut up I think I will buy it. do's it look the right lenth.	0	condi	0	0
	280 28D 29A 29B	now I'm sure I will take it. thanks for the mittens. do you now what hapend to me yesterday I come down the levator	1.	1	0	0
	290 29D 30A	I crossed the street and got hit by a car that number 13 is a very bad number shes received some letters	1	0	0	0
	30B 30C 30D	I think I will mail them tomorow I have to mail these today Will you please mail this for me!	1	1	0	0
A1 - 11	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16A	Don't play with matches I like to buy a paper It my sisters Good by for good Hallo hope you like our art. Would you like to comeout with me. I lost one of my glove Girl look for something Bad report card Water fountain Would you like to sit over here I found this in my room Who at the door Waiter, Menu please I like to buy a mazgine What time is it. I better phone my wife.	1 1 0 1 1 1 0 0 0 0 1 1 1 1	1 1 1 0 1 0 0 0 1 1 0 0	0 1 0 0 0 0 0 0 0 0 0 1 -	0 0 0 0 0 0 0 0 0 0 0 0 1 -
	16B 16C 16D 17A 17B	I better phone my wife. The phone won't work. Hello I am sorry I phoned so late. Come and see my drawing Where are the eyes.	1	0	0	0
	17C 17D	Here let me show you. There see the eyes?	1.	0	0	1



Student Number	Picture Number	Student Response	S	Cod M	ing T	С
				1.7	L	
	18A	Almost time for the kids to get our				
	a dn	of school				
	18B	Here they come now.				
	180	The kids will go in there own direction				
	18D					
	100	Soon they will get there summer hot days	1	1	0	0
	19A	Hello how are you?	.1.	ulla	· ·	0
	19B	Hello is Dony here?				
	190	Please come in.				
	19D	Thankyou.	1	0	_	mik
	20A	Everyone is that work.				
	20B	Mother is doing the dishes.				
	20C	She is also cleaning the rooms.				
	20D	Now she is getting supper ready.	0	0	0	0
	21A	The boy is not here.				
	21B	He is not in is room.				
	21C	I can not find him.				
	21D	I don't know where he is?	1	1	0	0
	22A	I have to go shopping				
	22B	Would you like to come shopping	7	_	-	0
	22C	We will go there.	1	0	1	0
	22D	What would you like				
	23A	Please come in.				
	23B	Would you like anything here.				
	230	We have a sale on eggs 6 for 30¢	1	0	0	1
	23D	Or maybe a quart of milk	-	O	O	.L.
	24A	Oh I forgot about those.				
	24B	Mom are you putting something in there				
	24C	Yes, these sheets	1	0	1	1
	24D	Here will open the door Would you like to go to a movie	مام			
	25A	Want to see this one				
	25B	Or maybe this one	1	1	0	0
	25C 25D	Which one are we going to see.				
	26A	Look at my drawing				
	26B	Where the eyes				
	260	Here it is.	1	1	0	0
	26D	Here is the eye.				
	27A	I guess I will take a shave.				
	27B	First some foam.				
	27C	Now my shaver and blade.				
	27D	Easy does it	0		0	0
	28A	Would you like this coat.				
	28B	Can T have it.	2	2	_	0
	28C	Lots of kids are wearing that kind.	1	1	0	0
	28D	And here are gloves.				



Student Number	Picture Number	Student Response	S	Cod M	ing T	С
	29A 29B 29C 29D	Where is Elmwood St.? It down here. Where aparment 13? Right here.	1	1	0	0
	30A 30B 30C 30D	Will you mail this please? I better buy some envoler. 2 more days for christmas I'd mail this letter.	1	1	0	0
A1 - 12	1	Light the match please Mary.	1	1	0	1
	2	Did you see the pictures at the back.	1	0	0	1 .
	3	I hope they are going to be all right.		1	0	0
	2 3 4 5	She must hurray.	1		1	0
	5	Lets play dad & mom or house.	1	0	0	0
	,			_		
		Hello Miss may I see your father pleas		1	~	ma -
	7	I wish my purse would stay on my arm.	1	1	0	1
	8	I'll clean-up the place.	0	818	0	0
	9	I hope she doesn't write to mom and				
		dad.]_	0	1	0
	10	Mary said. "This is a bueatiful				
		dountain"	0	and a	0	0
	11	Bonjour, Miss may I help you.	1	1	449	ava .
	12	Mother may I use this.	ī	0	0	0
	13	The are invisable.	0	0	0	1
			1	1	0	î
	14	Bring that paper here, please.	1	0	O	Ψ.
	15	This is an interesting magazine.	1	U	4018	
	16A	How long will I talk on the phone.				
	16B	The number is 49.43.	-	_	^	_
	16C	Change please.	1	0	0	0
	16D	Hello mom.				
	17A=	See the face I drew.				
	17B	You forgot his eyes.				
	17C	I'll show you how.				
	17D	See theres the eyes.	1	1	0	1
	18A	I wish those boys would quit riding				
	2.011	there.				
	18B	There going away.				
		Now the gates closed				
	180	Now the flowers in the garden can				
	18D	Now the flowers in the garden can	3	7	1	0
		grow and those boys won't hurt them.	do.	-	ulu	
	19A	Hello Marion. Hello Sam.				
	19B	Hello Marion. Hello Jane.				
	19C	Come on in and sit down.	7	0		
	19D	OH! Marion I like your apartment.	1	0	-	400



Student Number	Picture Number	Student Response	S	Coo	ding T	С
	004	A 15 day	terinda and the control		<u>-</u>	0
	20A	All that work has to be done.				
	20B	The dinner dishes have to be done als	0.			
	200	Look at this messy room.				
	20D 21A	Almost done everything.	1	1	0	1
	21B	Hi Jane. How are you.				
	21C	Look at this mess				
	ZIU	Jane will you help me I'm having company tonight				
	21D .	Sorry I have to be going now.	1	1	0	0
	22A	I haven't got enough money	L.	-1-	U	U
	22B	Sam come with me. Hurray!				
	22C	See that store. I haven't got				
		enough to buy that meat	1	0	0	1
	22D	Oh! I'll help pay!				
	23A	Gooday Miss Jameson.				
	23B	What would you like.				
	230	Six of those please.				
	23D	And a bottle of milk thank you.	1	1	1.	1
	24A	I have to put the sheets away.				
	24B	I'll have to hurry.				
	24C 24D	Last one. I need a sheet for my bed.	7	-	~	**
	25A	Close the door please.	1	1	1	1
	25B	Want to go to the movie				
	25C	There's a good movie on tonight. It's about war. See!	1	0	0	0
	25D	I don't know if I want to go	ala	U	U	0
	26A	See the face I drew				
	26B	There's no eyes.				
	26C	I'll draw them.	1	1	0	1
	26D	One eye closed and one eye open.				
	27A	I'd better hurray				
	27B	I'll wash first				
	27C	Now I have to shave.				
	27D	Almost done. Nicked myself.	0	rie Prop	0	0
	28A	Wear this coat.				
	28B	How come. Do I have to.				
	28C	Yes! It snowed out last night.	1	1	1	1
	28D	Here's some mitts also.				
	29A	Hello Joe were's Sam				
	29B	He went to the apartment.				
	29C	This is the first floor we have to	2	0	0	^
		go up.	1	0	0	0
	29D	We went up to far he is on the 7th				
		floor.				



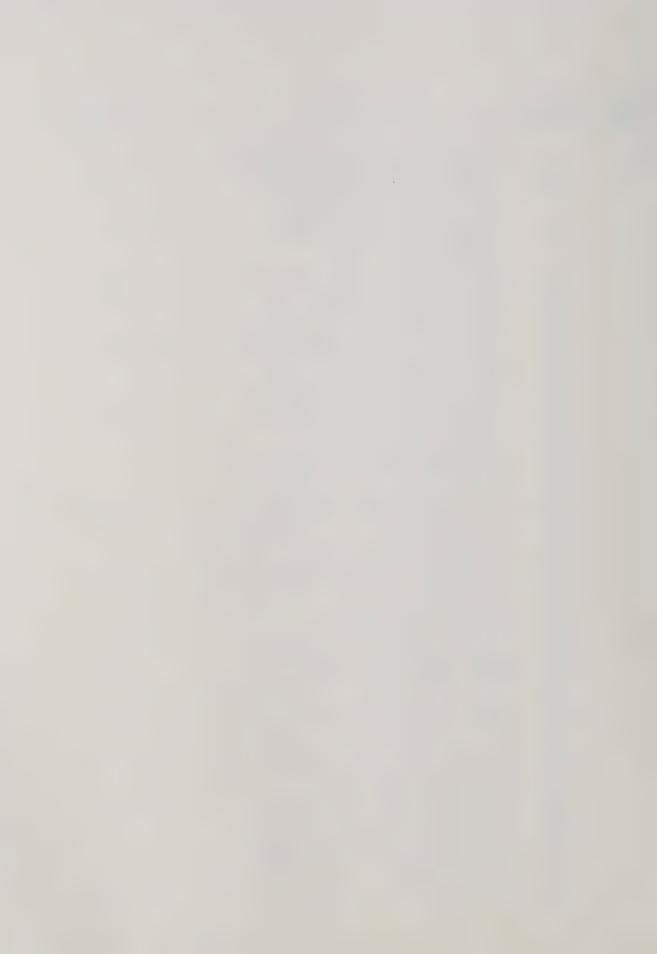
Student Number	Picture Number	Student Response	S	Cod.	ing T	С
	30A 30B 30C 30D	Would you take this to the post office Oh! I have to mail these letters. I was suppost to mail them on the 23rd Now there mailed.		1	0	0
A1 - 13	1 2 3 4 5 6 7 8 9 10 11 12 13 14	happy Birthday to you. Want to buy a paper? Hurry we'll be late. Hope you liked the play Come in and wait. Well I'm ready. Let's look in the attic Now sign on the dotted line Let go take a picture of the fountain Will you order now Madam? How do you like your new coat. Where are you hiding? Oh waitress I'll order now I'll have a copy of this.		0 0 0 1 0 1 - 0 - 0 1 1 1	0 1 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	16A 16B 16C 16D 17A 17B	What time is it? I'll phone the radio and ask. Why won't the phone work. Ah now it works. That you It is not.	1	0	0	0
	176 170 170 18A 18B	Yeah well this is you. Sure looks like you to School starts. School closes.	1	1	0	1
	18C 18D 19A 19B	Weedend school closes. Saturaday morning Welcome Mr. Lindsay Hello Mrs. Davidson come in and wait	0	0	1	0
	19C 19D 20A 20B	Welcome Mr. & Mrs. Eshadmade. The docter will see you now Hurry clean up the house. Do the dishes quick.	1	0	-	-
	20C 20D 21A	Clean up the bedrooms. Hurry company will be here any minute. Would you like to come in.	1	1	0	1
	21B 21C 21D	This is the boys room. How do you like our new house? Good byb Mrs. Prentice.	1	0	0	1



Student Number	Picture Number	Student Response	S	Codi M	ing T	С
	22A 22B 22C 22D 23A 23B	Do you have Roast Beef? The butcher soaked you. He the butcher. He will give us our money back. Come in I'm open. What kind of milk do you want.	1	0	0	0
	23C 23D 24A 24B	My eggs are grade a. That 22¢ for the milk miss. Whats this doing up here? It's mine.	1	0	0	1
	24C 24D 25A	How did it get up there? Don't let me find it up there again, Want to go to the movie?	1	1	0	1
	25B 25C 25D 26A	Oh boy John Wayne. Look at the fight scene I don't like John Wayne any way. That you pucke lip.	1	0	0	0
	26B 26C 26D 27A	That is not me. This is you. And there's your eyes. What a night.	1	1	0	1
	27B 27C 27D 28A	Ah this water is refreshing. Now to shave. Ouch cut myself. A new coat.	0	net.	0	1
	28B 28C 28D	Can I wear it to school? There's Mary. Don't forget your gloves. How do you get to Long St.	1	1	0	0
	29A 29B 29C 29D	You go 1 block East. Oh I know the house you mean. Is this it, number 13.	1	0	0	1
	30A 30B 30C 30D	Will you mail this package for me. And these letters. It has to be there by June 25. Of Course I will.	1	1	0	1



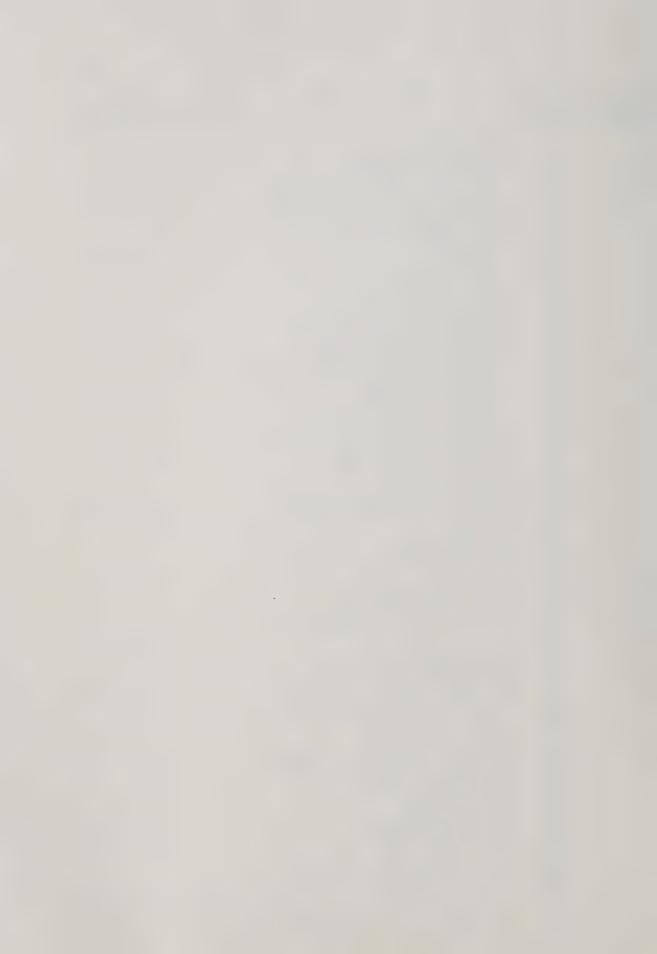
Student Number	Picture Number	Student Response	S		odi	-
B1 - 1	1 2	Oh, its almost time for the party. Did you read this add in the paper?	1			
	3	I wonder if I should go also?	1			
	4	Boy, he was a very mean person.	0			
	5	This coat is too big for me.	1		-	
	6	Yes, sir, what would you like?	1			
	7	I better take my perce.	1	1	1	1
	8 9	Where is my bicycle?	0		_	
	10	No, I better no rwrite a letter.	1			
	11	What a beautiful sight.	0		_	
	12	Yes, mame, where would you like to sit? Mother my curtains fell down.	1			-
	13	I thought I saw my children there.	1		_	
	14	Would you br the menu please?	1			
	15.	How much is that paper.	i	0		
	16A	Oh, it is time to phone granma.				
	16B	I think her first number if four.				
	16C	I forgot to push the ubtton.	1	0	0000	****
	16D	Hello is that you granma?				
	17A	Is this the way to draw your face?				
	17B 17C	You forgot to put in the eyes.				
	17D	My head is also shaped like this. And my eye go about right here.	1	1	0	1
	18A	It must be time for my son's school.	1,	Т	U	Т
	18B	It's five o'clock he should be getting out.				
	18C	I wonder if they all got out.				
	18D	It's March 1 thats means its pay day.	1	1	0	1
	19A	A Good day sir I've been waiting for you.				
	19B	And is this your wife.				
	190	Will you come in please.	7	0		
	19D	Its been very nice meeting you.	1	0	-	_
	20A	I got to get home to do the work. First I will do the dishes.				
	20B 20C	My room is a dump.				
	20D	I also have to clean the counter.	1	1	1	1
	21A	Look it isn't look clean.				
	21B	Why is all these things up there?				
	210	I forgot where it is.				
	21D	Oh well I'll go look for them.	1	1	0	0
	22A	I'm going to pay some too.				
	22B	Hurry up you will be late.	-	_	_	
	220	There see. you are just on time.	1	0	0	0
	22D	He is going to wait for us.				
	23A	Yes, mame what can I do for you?				
	23B	Here is all the things you need.				
	230	I need six eggs.	1	1	1	1
	23D	And I need a gug of milk.		-10	,	_



Student Number	Picture Number	Student Response	S		ding T	
	24A 24B 24C 24D 25A	Sister did you clean the cubboard. I better check just in case. I need the towel for the kitchen. Look at that what is it doing in there. Say, lets go in there for a moment.	1	0	0	0
	25B 25C 25D 26A 26B	Ha look at the funny pictures. Look at this funny one. I cannot find a real funny one. Is this what you look like? You forget my eyes again.	1	0	0	0
	26C 26D 27A 27B 27C	First I need eyelicks. And then I need eyes. I better wash my face. I need lots of soap. Now I'll need a shave.	1	1	0	0
	27D 28A 28B	Oh, that is sharp. Is this the kind of coat you what? Nay I try it on?	0	-	0	0
	28C 28D 29A	Look I would like one like that. Oh, yes, I almost forgot my gloves. I don't know where to go sir. Here it is the place.	1	1	0	0
	29B 29C 29D 30A	Do you know want room this is. Here this room is room 13. Would you please put this in the post office	l ce?	1	0	0
	30B 30C 30D	I must mail this to letters.	0	0	0	0
B1 - 2	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16A 16B 16C	Light the candles. did you read this article? What a line up good-bye. their too big come in don't sign look at the fountain would you like a table. will you wash this for me. where is everybody come here waitress Id like to buy this magazine It's time to phone home. where is the change	1 1 0 0 1 1 0 0 0 1 1 1 1 1 1 1	1 0 1 0 0 0 - 0 0 1 1 0 0	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	16D	hello dear				



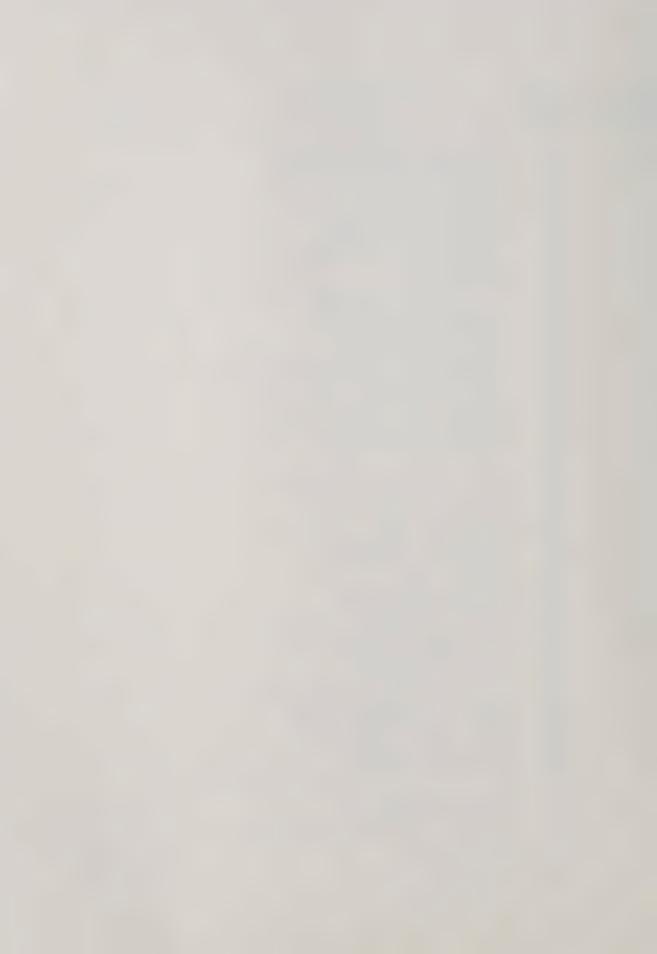
Student Number	Picture Number	Student response	S		ling T	-
	17A 17B 17C 17D 18A 18B	look at my picture where are the eyes? I'll draw a better one. I'll put the eyes in this time. the people are pouring in. there coming out now			1	athanagang di mmayang gipinan a
	18C 18D 19A 19B 19C	It's closed. its getting hello, come in glad to meet you won't you both come in.	0	0	0	0
	19D 20A 20B 20C	thankyou don't mind if we do is she doing the housework I should wash the dishes I should pick up all the clothes	1	0	e=0	mail .
	20D 21A 21B 21C	and clean the table I cleaned the dinning room and put away the toys is that all you want me to do.	1	1	1	1
	21D 22A 22B	yes this is just fine. I should get some meat. come on with me	1	1	0	1
	22C 22D 23A 23B	lets go to the butcher shop Ill buy some of this. come in My I help you?	1	1	1	1
	230 23D 24A 24B	I'd like half a dozen eggs. and a bottle of milk help me put these away No I want to play with my doll	1	1	1	1
	24C 24D 25A	put them in there. Do you want to see a movie	1	1	0	0
	25B 25C 25D 26A	here are some shots of it. Its the hunchback of Noterdam I don't know if I want to look at my picture	1	0	0	0
	26B 26C 26D 27A	where are it's eyes Ill draw it with one eye shut and one eye opened I'll wash now first his face	1	1	1	1
	27B 27C 27D 28A 28B	now I will shave. ouch I cut myself put on this coat oh its to heavy do I have to	0	010	0	0
	28C 28D	look at the other people they were their heavy coats you better put on your gloves too	1	1	1	0
	LOD					



Student Number	Picture Number	Student Response	S	Cod	ding T	
	29A 29B 29C 29D 30A 30B 30C 30D	where are you going to the building across the street what floor are you going to floor thirteen would you mail this for me. I forgot to mail mine Ive got two hours I'd better mail it fast	1	1	0	1
B1 3	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16A 16B 16C 16D	out of matches man takes the paper meets her friends leaves the house mad boy out on halloween Does Miss Davis live here bought new gloves & pure to match David is exploring the attic Mr & Miss Gathering at the park's fountain Would you like a table Do you live downstairs Could I have the menu Now much is this I must phone my mother at 6 o'clock Her phone number is 49.43 It isn't working Hello mother	0 0 0 0 0 1 0 0 1 1 1 1	1	0 1 0 1 0 0 0 0 0 1 -	0
	17A 17B 17C 17D 18A 18B	Look what I drew Wheres his eyes I'll draw him with eyes See mine has eyes Men are going to work Men are going home from work	1	1	0	1
	18C 18D 19A	They all go different ways Its now March the 1st Is my wife here	1	1	0	0
	19B 19C 19D 20A	Did you see my hisband come on in and have a seat It is nice of you to invite us in I have to do my chores I work the dishes	1	0		-
	20B 20C 20D	I must wash the dishes and clean the bedroom also scrub the stove	1	1	1	1



Student	Picture	Student Response		Cod	ling	t
Number	Number	an older treatment of the contract of the cont				C
	21A 21B 21C	This is the dinning room this is the childrens bedroom do you like it			and the second second	
	21D 22A 22B	I must go and it is very nice how much is it	1	1	1	1
	22C 22D 23A 23B	lets go do the shopping There is the meat store would you like some of this How do you do what would you like to buy	1	0	0	1
	23C 23D 24A 24B 24C	how about 6 eggs for 12¢ or maybe a quart of milk don't break your doll don't worry I wouldn't open the door so I can put these away	1	0	0	1
	24D 25A 25B	don't slam it back would you like to go to a movie look how stars in it	1	1	1	1
	25C 25D 26A	this is a exciting scene I don't have any money	1	0	0	0
	26B 26C 26D 27A 27B	but it dosent have any eyes Ill put them in one's close & ones open he runs the water puts soap on his face	1	1	0	1
	27C 27D 28A	gets the razor blade starts to shave wear you winter jacket	1	m=0	1	1
	28B 28C 28D 29A	But it is to heavy wear it because it is cold out wear these red gloves which is Elm street	1	1	1	1
	29B 29C 29D 30A	it is over there what number does Mr. Jones live at number 13 is where he lives I need to have some stamps	1	1	1	1
	30B 30C 30D	and I needs a envolope It has been 2 days put you just have to put it in the box	1	1	1	1
B1 - 4	1 2 3 4 5 6	Baking a birthday cake Would you like to buy a newspaper. Closing a door May I come in?	0 1 0 0 0	0 0 -	0 1 0 0 0	0 0 0 0 0 -



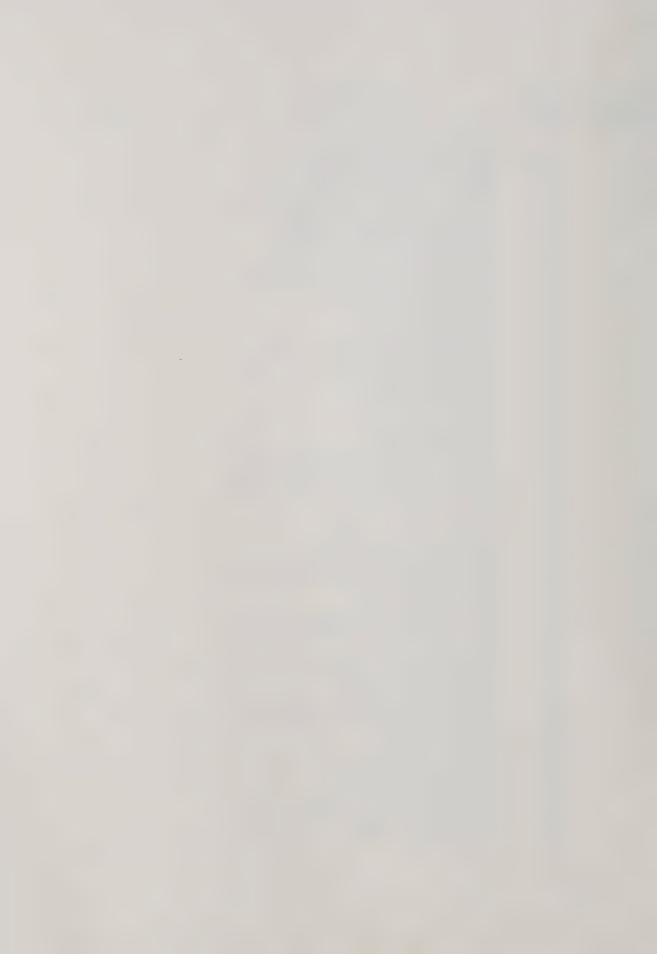
Student Number	Picture Number	Student Response		a		ling	
Control of the contro				2	<u>i</u> M	T	C
	7 8 9 10	Looking in an attic. Are you married? A pond in a park.		0 0 1 0	0 - 1 -	0 0 0	0 0 1 0
	11 12 13 14	A cafe in Paris A they your children Bring me a menu please		0 0 1 1	0	014	0
	15 16A 16B	How much is this book What time is it? Dialing a number.		1	0	***	***
	16C 16D 17A 17B 17C	Hello I drew a face Where is it's eyes? I'll show you.		0	0	-	
	17D 18A 18B 18C	Here's where you put the eyes Going home. Going out.		1	1	1	1
	18D 19A 19B 19C	Hello! Meet my wife. Won't you come in?		0	0	0	0
	19D 20A 20B 20C	Thank you. I have to do some cleaning up. I'll do dishs now. Then I'll clean up.		1	0	-	-
	20D 21A 21B 21C	Will you set the table. I'll clean the bedroom. Where have you been?	, 3	0	0	0	0
	21D 22A	I've been out, I have to go to the butchers.	3	1	1	0	0
	22B 22C 22D 23A 23B	Will you come with me? There it is. Do you want that meat? May I help you? What do you want.		1	0	0	1
	23C 23D 24A 24B	Half a dozen eggs please. A quart of milk too. I have to put the sheets away.		1	1	1	1
	24C 24D	Do you want to help? They go in here		1	0	0	0



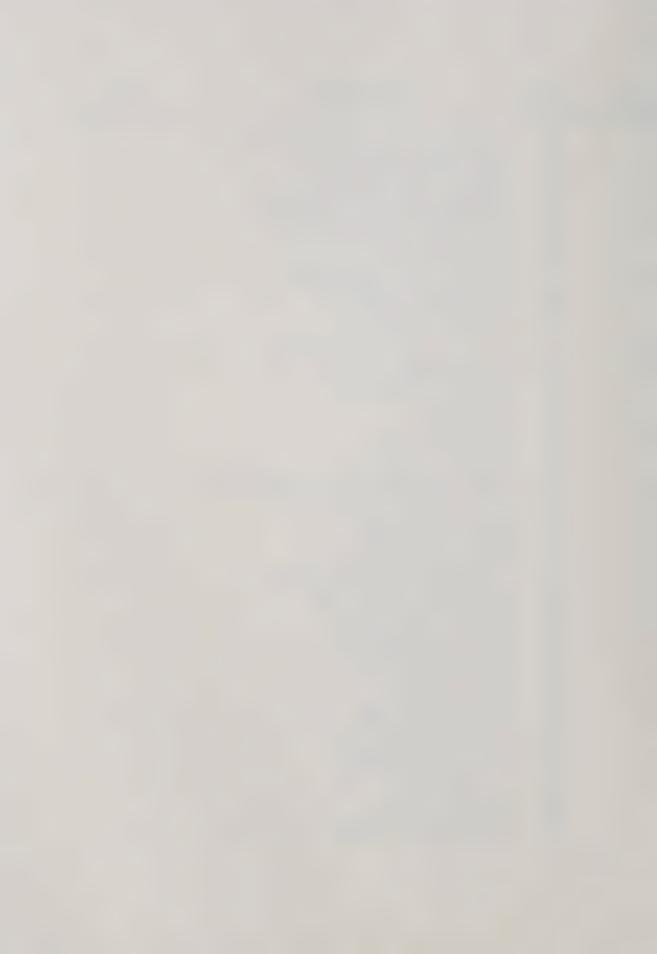
Student Number	Picture Number	Students Response			ling T	
	25A 25B 25C 25D 26A	Do you want to go to the show Hey look at this picture. That one looks like me. I don't think so. See my face.	1	0	0	0
	26B 26C 26D 27A 27B	Where are the eyes I'll draw the eyes There, finished. I'll wash my face. Now I'll put shaving cream on	1.	0	0	0
	27C 27D 28A 28B	I'll get my razor. Then I'll shave. Get your winter coat. I need some mitts.	0	-	0	1
	28C 28D 29A	See how cold it looks. Here are some gloves. Where do you live?	1	1	1	1
	29B 29C 29D 30A	Across from the theatre. What suite? Suite no. 13. I have to mail this parcel.	1	1	1	1
	30B 30C 30D	Will you mail my letters?	0	0	0	0
B1 - 5	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16A 16B 16C 16D	This is a nice cake. May I borrow your paper? Wonder how its going to be working Boy am I mad I am Daddy Excuse me does Richard Boe live here? Securing a purse This is neat I wonder if I failed my Test A beautiful park fountain Would you like something Was this yours mommy. I wonder whos that. May I have a menu? I'd like to buy a magazine Oh its almost 6 oclock his number is 49.43 I will see if I got change back Hello, Momma dear?	0 1 1 0 0 1 1 1 1 1 1 1	1 0 0 0 0 - 0 - 0	0 1 0 0 0 1 - 0 0 0 1	0 1 0 0 0 0 0 0 0 0



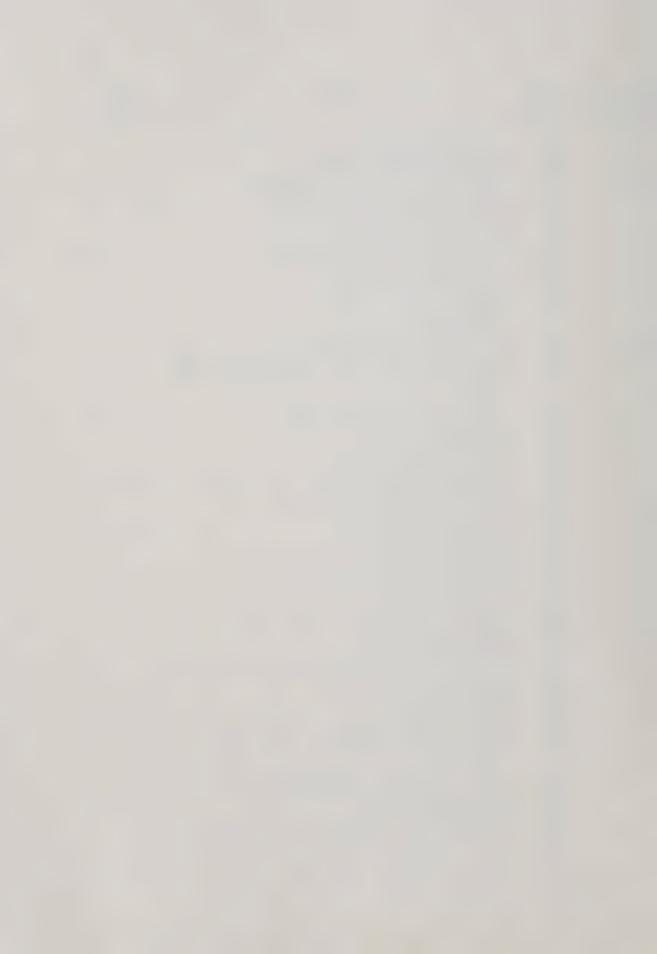
Student Number	Picture Number	Student Response			ling T	
	17A 17B	Look at that funny face? Who is it supposed to be?		PROBE LINEARING		an a
	17C 17D 18A 18B	This is a face you should know. this is a better drawing any way. Some men go to work on bikes and some come home on bikes	1	1.	0	0
	18C 18D 19A 19B	the factory does many things I like it when the flowers doom Hello I'm you neighbour across the hall Im his wife, Mrs. Burn.	1	1	0	0
	19C 19D 20A 20B	Won't you come in? Thank you very much. I'm happy I don't have to work. I hat washing dishes.	1	0	***	***
	20C 20D 21A 21B	I hate cleaning up the kids room. I don't mind cooking oh how do you do! Sorry but the kids room is a mess.	1	1	0	0
	21C 21D 22A	What did you want? I'd let you when the kids are home I had better go and get some lunch.	1	1	0	0
	22B 22C 22D 23A	Billy do you want to go some where? Good he's open today You wait out here okay? Good day how are you?	1	0	0	0
	23B 23C 23D 24A 24B	What would you like today? I would like half a dozen eggs please. and one quart of milk. What are you doing! I had better not show her my doll.	1	1	1	1
	24C 24D 25A	Were you in the train closet? Is it you stuff out. Want to go to the show?	1	1	0	0
	25B 25C 25D 26A	Look at these scenes! This one is the best I don't know whether we should go? Look at the face!	1	0	0	0
,	26B 26C 26D 27A	There are no eyes. I'll put some eyes in That looks better now. He is going to clean up.	1	1	0	0
	27B 27C 27D	putting a damp cloth over his face. He is going to shave! Hes shaving.	1	***	1	1



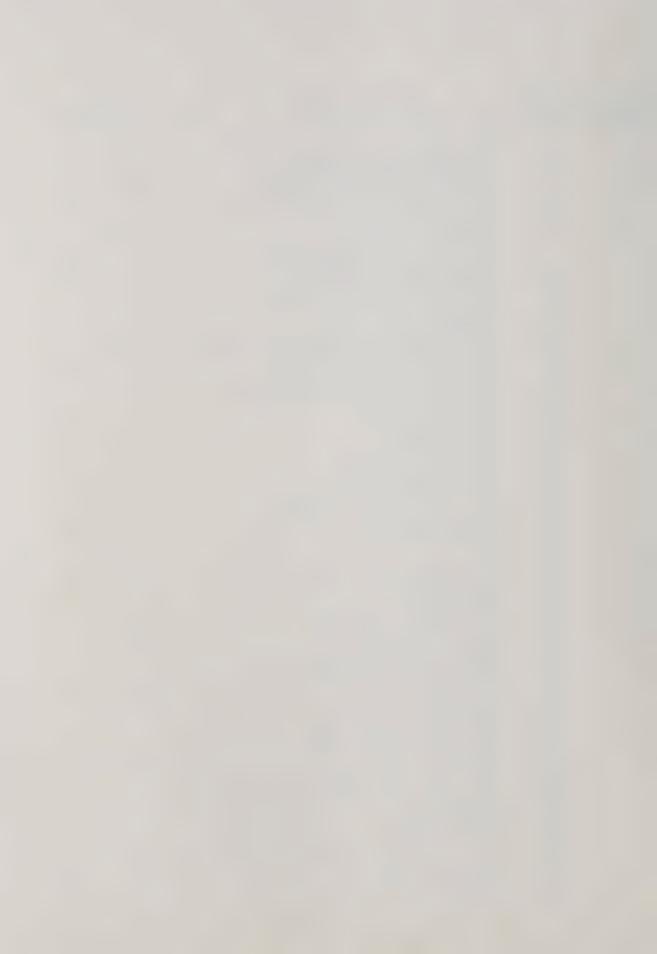
Student Number	Picture Number	Student Response		Cod M		
	28A 28B 28C 28D 29A	Do you want to wear your new coat? Can I really wear it? Well you better its cold out. Here are some gloves too. I wonder which Hotel is better?	1	1	1	1
	29B 29C 29D 30A	How far is it across the street? Do you have a elevator. Yes its no. 13! Would you mail this for me?	1	1	0	0
	30B 30C 30D	I better get an envelope. Two days have passed I'm lucky I mailed it.	1	1	0	1
B1 - 6	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16A 16B	My I light the candles please? It's my paper. Stand in line please. Goodbye. Im a father. Good morning Sir. my purse Where is everybody? Do you take this man to be your husband? What a beautiful sight to see. What would you like please. please fix this mom. Wheres the children? Could I have a menu please. I would like to buy this please. May I speak to Miss Smith. Dial this number please?	1 1 0 0 1 0 0 1 1 1 1 1 1	0 - 1 0 - 1 - 0 0 1	1 1 0 0 0 0 0 0 0 0	1 0 0 0 - 1 0 1 0 - 0
	16C 16D 17A 17B	It's the wrong number. Hello. Miss Smith, how are you? I'm drawing a face. There's no eyes on the face.	1	0		
	17C 17D 18A 18B	Here's the head. and here's the face. I'm going to see the game. The games over already. Its closed on Sunday.	1	1	0	0
	18C 18D 19A 19B	It's May the 1st today. Hello Mr. Smith.	1	1	1	0
	19C 19D	Won't you both come in and sit down. Ladies first Mr. Smith.	1	0	-	-



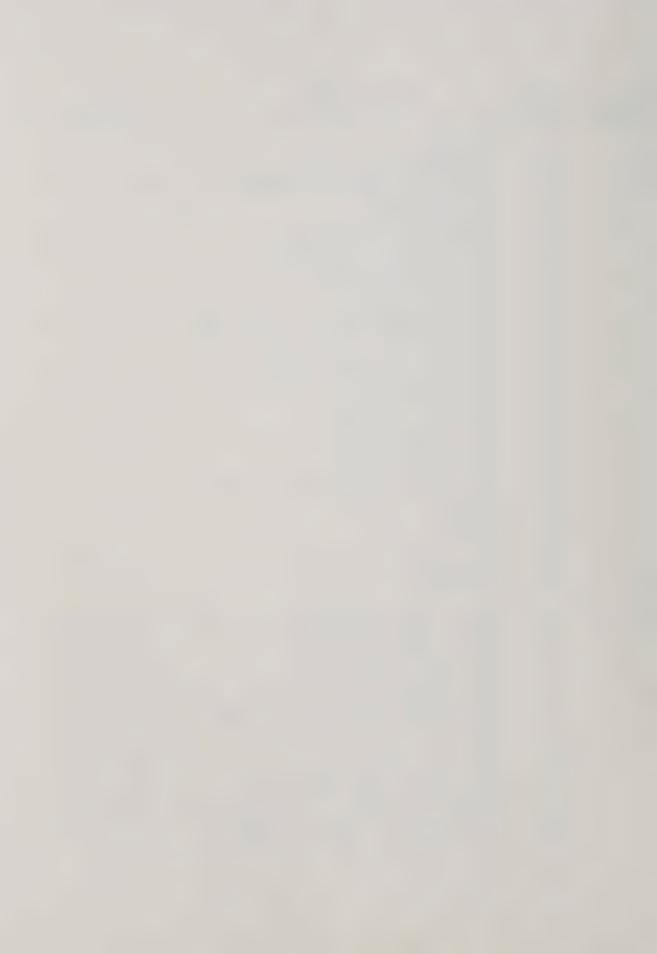
Student Number	Picture Number	Student Response		Cod	ling T	
		The state of the s				
	20A	I've got to get the house work done.				
	20B	I'll do the dishes first.				
	200	Then I'll clean out the drawers.				
	20D	Then I wash the rooms and kitchen.	1	1	1	1
	21A	Won't you come in please.				
	21B	This is Johny's room.				
	210	But I don't know where he is right now.				
	21D	Oh well I'll see him next time.	1	1	0	0
	22A	How much is it please?				
	22B	Come on Peter.				
	22 C	Let's go to the grocier store for some grocierys.	1	1	1	0
	22D	What should we get today?				
	23A	Hello Miss Smith what would you like today.				
	23B	There's soup milk peas everything you need here.				
	23C	A half a dozen eggs please.				
	23D	and one jug of milk for today.	1	1	7	1
	24A	I forgot the towels.	-4-	,,,,,		
	24B	Where are they mother.				
	24C	There in there aren't they				
	24D	What that in there Suzy.	1	0	0	0
	25A	Joan do you want to see a show.				
	25B	Oh this ones good.				
	25C	look at that one there	1	0	0	0
	25D	What's so funny about that one.				
	26A	Here's my picture.				
	26B	There's no eyes on the face.				
	26 c	I'll put some in.	1	1	0	1
	26D	There's one open and the other closed.				
	27A	A gold wash for me.				
	27B	scrubb a dub. dub.				
	27C	I have to shave this morning, to look nice.			^	_
	27D	la, la, la, la, la.	0		0	0
	28A	Here's your coat Sharron.				
	28B	Thankyou mother.	~	7	7	7
	28C	Tt looks cold outside.	1	1	1	Т
	28D	Then you better take your gloves along with you.				
	29A	Hello, Tom, Hello George how are you.				
	29B	There's the arrow leading there.				
	290	Where's the number?	1	1	0	0
	29D	mhane it is its number 13.				
	30A	Would you take this back to the store please	э?			
	30B	It's a letter from Jane.				
	300	It took to days to get here.	1	1	0	0
	30D	I better mail her one to.				
	700					



Student Number	Picture Number	Student Response	S		ding T	
B1 - 7	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16A 16B	Mary places the candles on the cake. I'll have a paper, please I would like to see that movie. Mrs. Smith leaves the apartment house. Is it too big? Do come in, please. Mrs. Jones puts on her gloves. Mikele explores the old attic. Should I sign the contract? This is the fountain of youth. Bonjour, Mademoiselle. Is this mother's coat? I wonder when the children will arrive? Oh miss, what's on the menu? I think Ill buy this magizine. I must phone home by 2:00 o'clock. Mr. Jones dials.		1 0 0 0 - 1 - 1	0	0 1 0 - 0 0 0 0
	16C 16D 17A 17B	I will call again. Hello? Mother? John draws a face. You must put in eyes.	1	0	-	-
	17C 17D 18A 18B	I'll show you how. See? First you put in eyes. John rides his bike in the yard. He must hurry home!	1	1.	1	1
	18C 18D 19A 19B	He has been missing since yesterday. Well, Hello! Hello, miss.	1	1	0	0
	19C 19D 20A 20B	Won't you both come in? Yes, we will, thank-you. I have many things to do. Mother washes the dishes.	1	0	***	***
	20C 20D 21A 21B	I'm tired of always cleaning-up. Ah, finished at last! Here is the living room. This is the twein's room.	1.	1	0	0
	21C 21D 22A	When will I see you again? Tommorrow, maybe. T must get some samedi.	. 1	1	0	0
	22B 22C 22D 23A 23B	Will you come to the butchers with me? Ah, there it is! Wait here john. Would you like to purchase something? I'm not sure yet	1	0	0	1
	23C 23D	I'll have 6 eggs and one quart of milk.	1	1	1	1



Student Number	Picture Number	Student response	q		ling T	
emunique i ducum zanegeni di umminici, perudit dimeditrici	STOPPEN STATE (The STATE STATE AND	T • 0		1,1	1	0
	24A 24B	Jooonie? Yes, mother?				
	24C	Will you put these in the laundry?				
	. 24D	Right away, mother.	1	0	0	0
	25A 25B	Lets go to a show. Ah, here is a good one.				
	25C	The hunchback of Notre dame.	1	0	0	0
	25D	I have no money.				
	26A 26B	Lets draw another face. The eyes!!!?!				
	26C	Jon draws eye brows.	0	1	0	0
	26D	Ill draw an open eye on the other side.				
	27A 27B	Ill shave now. Ill put on some shaving creme.				
	27C	Ow?!! That's sharp!				
	27D	Dum dee dumm dee	0		0	0
	28A 28B	I'd better leave now. Thanks for everything!				
	280	Oooh! there is Joanie.	1	1	0	0
	28D	Good-Bye, Mrs. Smith.				
	29A	Do you live near here?				
	29B 29C	Right across the road from the cinema. How many floors up?	1	1	1	0
	29D	Thirteen.				
	30A	Ill mail it now.				
	30B	Oh!! I forgot the envelope!	0	0	0	0
	30C 30D	2 days pass. I'll mail it today for sure?				
			0	_	7	7
B1 - 8	1	Mary is lighting the candles on her cake.	0	0	1	0
	2	I didn't here the whole story. Betty is praying for everyone.	ī	0	0	0
	4	Miss Turner is mad when she leaves.	1		1	1
	5	Bill is doing a play at school.	0	0	0	0
	6 7	Would you life to come in and have coffee Betty is about to set her purse down.	0	0	1	0
	g	Bill decides to play in the attic.	1		1	0
	9	strux conditional	0	0	0	0
	10 11	Isn't it a nice day? May I ehlp you find a seat?	1	0		-
	12	Mother where should I put these?	1	1	1	0
	13	T wonder what Bill and Jane look like now.	1	0	0	1 0
	14	I have decided on what I will eat. I would like this magazine Please.	1	0		_
	15	I MOUTH TIVE OUTD WEREALD				



Student Number	Picture Number	Student response	Coding S M T C			
	16A	Trandom if it is all the standard			-	San
	LOA	I wonder if it is the time to phone my wife.				
	16B	Mr. Brown phones his wife.				
	.16C	The phone does not work and he gets back his change.	0	0	me	
	16D	Finally he reaches his wife.				
	17A	Bill asks Joan to look at what drew.				
	17B	Joan asks where the eyes are.				
	17C 17D	Now Joan trys to draw a face. Joan remembers to draw in the eyes.	0	0	1	1
	18A	Tom remembers back when he was young.	U	U	1	J.
	18B	He would go bicycle riding.				
	18C	60 ma wa				
	18D	dural state state	0	0	0	0
	19A	Mr. Danials arrives home.				
	19B	There is a party at the Daniels this is				
	7.00	their first guest.				
	190	Another couple arrive. Mrs. Daniels invites them in.	0	0	-	440
	19D 20A	I wonder has done all the chores?				
	20B	I hope she has done the dishes.				
	20C	Oh no I wonder if she remembered about				
		my room.				
	20D	I bet when I get home the house will be	7	7	0	0
		clean.	Т	1	U	0
	21A	Mary has to babysit.				
	21B 21C	I must get that balloon down for Tom. Could you please tell me when you are				
	210	coming home.			_	0
	21D	I am not sure I think in about 2 hours.	1	1	0	0
	22A	Mrs. Martin remembers it is saturday.				
	22B	The second to the				
	220	She asks Tom if he wants to go to the shop across the street.	0	0	1	0
	22D	She asks Tom what he would like.				
	23A	Good afternoon! May I help you? Is this what you are looking for?				
	23B	May I have 6 eggs please?				
	23C 23D	Oh yess and a bottle of milk.	1	1	1	1
	24A	T cuppose I need two more towers.				
	24B	I don't want mom to find out I broke				
	,	my doll.				
	24C	a the door for mo	1	1	1	1
	24D	Please close the door for me. Would you like to go and see that show.				
	25A	T this area a good picture.				
	25B	ports arous think that is a runny product.	1	1	0	0
	25C 25D	I am not sure whether I like this.				
	~ / 10					



Student Number	Picture Number	Student response	S	Coc	ding T	-
	26A	What do you think is missing on this?				
	26B	Mary replies "There are no eyes."				
	26C	Bob draws in one shut eye.	0	0	1	1
	26D	And then he completes the face by		U	.J.,	J.
		drawing in another eye.				
	27A	I must hurry and clean myself if I do not want to be late.				
	27B	Mr. Moore is washing his face.				
	27C	He picks up his razor.				
	27D	Mr. Moore needs a shave.	1	31100	1	1
	28A	Mother will you please get down my coat.				
	28B	Would you please help me put it on.				
	28C	I think you will need your mittens cause	1	٦	1	1
	28D	it is a cold day. Mother gives Mary her mittens.	T	T	_L	7
	29A	Could you please tell me where the Whales Hotel is.				
	29B	I guess it is that hotel.				
	29C	Will you please take me to the 15 floor.	1	1	0	0
	29D	This is the 13th not 15th.				
	30A	Could you please take this to the post office.				
	30B	I must mail this letter before its to late				
	30C	Oh my goodness I still have not mailed that letter	1	1	1	0
	30D	I am near a mail box and now I must go and mail it.				
B1 - 9	1	May I light the candles?	1	1	1	1
		Would you like to buy a paper?	1	0	1	0
	2	gra set må	0	0	0	0
	4	died were shill	0	0	0	0
	5	No. of the Control of	1	0	_	_
	6	May I come in?	0	0	0	0
	7 8	end (red Prid	0		0	0
	9	gas, sade evid dire	0	0	0	0
	10	and mile site	0	-	0	0
	11	May I take your order	1	0		-
	12	as as mil	0	0	0	0
	13	Are you in there	1	1	1	1
	14	"Waitress!"	1	1	0	U
	15	How much?	7	0	and .	
	16A	a to sine fourty three				
	16B	fourty nine fourty three	0	0	****	~
	16 C 16D	Wrong number.				
	Ton	110118 110118				



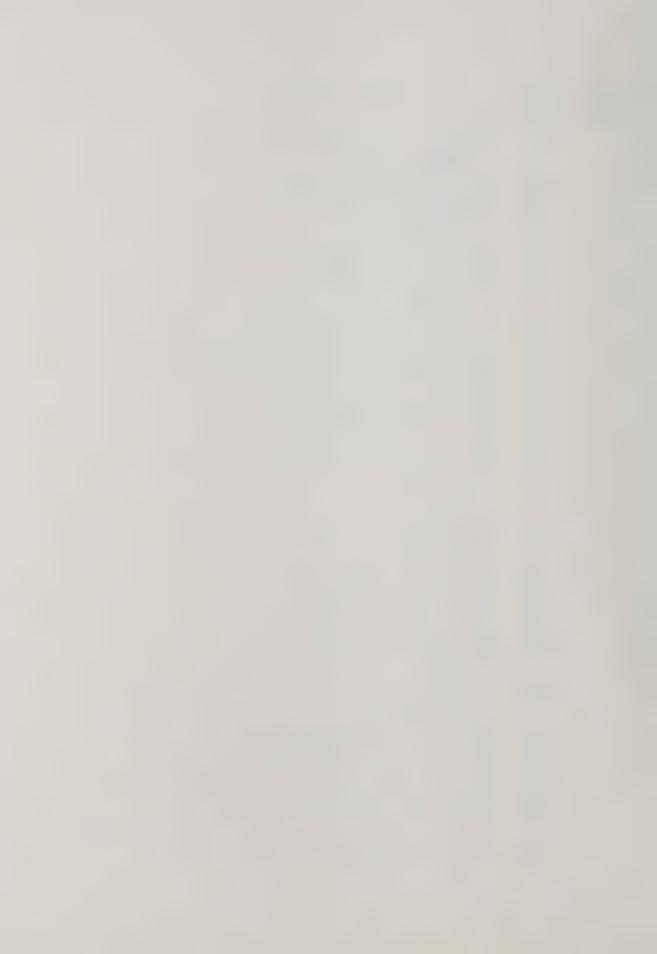
Student Number	Picture Number	Student response		Cod M		
	17A	Look what I'mdrawing				
	17B	You forgot his eyes!				
	17C	Let me show you.				
	17D	See, theres his eyes.	1.	1	0	1
	18A	With virty basis				
	18B	Note and mid				
	18C 18D	440 Visi 400	0	0	0	0
	19A	Would you like to come in.	U	O	U	O
	19B	Pleased to meet you				
	190	Come in				
	19D	Sit down please.	1	0	-	
	20A	404 460 740				
	20B	fine one real				
	20C	egn ern sed	0	0	^	^
	20D	Common de co	0	0	0	0
	21A 21B	Come in				
	210	gas eno eno				
	21D	prot ones credi	0	0	0	0
	22A	I'm going to the butcher.				
	22B	Come along.	_			_
	220	There's the butcher shop.	1	0	0	1
	22D	We'll buy this.				
	23A	Come on in				
	23B 23C	Do you want some milk How about 1/2 dozen eggs				
	23D	I'll take some milk.	1	1	1	1
	24A	all with end				
	24B	esp ess test				
	24C	pin eta mili	0	0	0	0
	24D	and the state of t	U	U	U	O
	25A	What playing at the Cinema				
	25B	Look here's a good one. Which one	1	1	0	0
	25C 25D	I don't know				
	26A	Look at my drawing.				
	26B	He doesn't have any eyes.	_	0	0	0
	26C	wat not not	0	0	U	0
	26D	gap enis emb				
	27A	day one felt				
	27B	AND YOUR STILL				
	27C	an ev ett	0	000	0	0
	27D	Here's your coat				
	28A 28B	Help me do up the buttons please			-	
	28C	Don't go out yet.	1	0	0	0
	28D	Here's your mitts.				
		•				



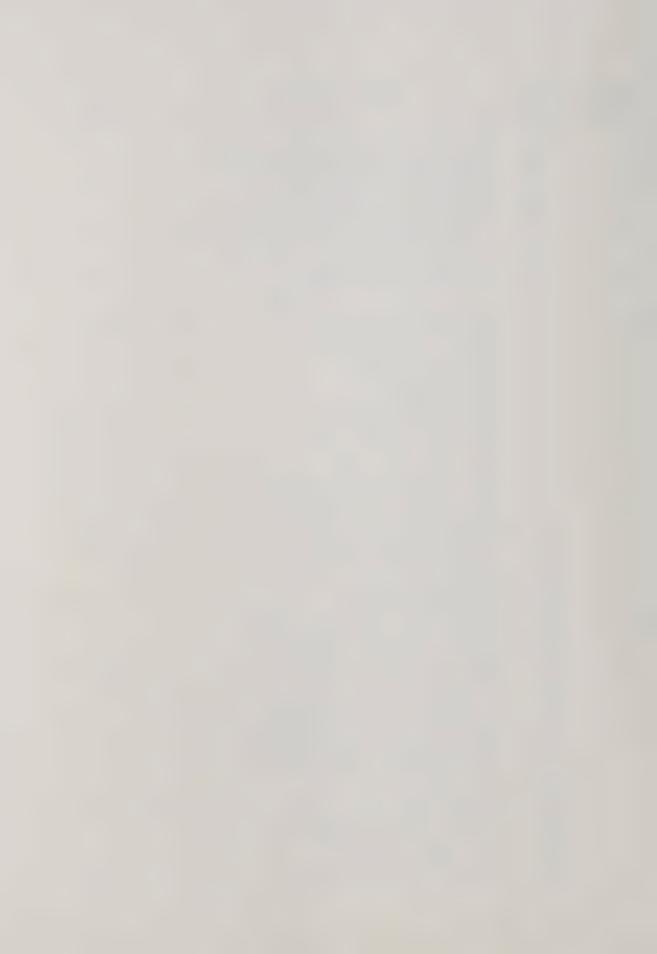
Student Number	Picture Number	Student response	S		ing T	
	29A 29B 29C 29D 30A 30B 30C 30D	Where are you going It's right across from the Cinema What floor is it at? Thirteen Please mail my parcel. You need an envelope Two days left	1 0	1	0	1
B1 - 10	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16A	That should be enough candles. Did you see this in last night's paper? I wonder if I'll get to do that. I guess I'll close the door nobody's there This is what I'll wear when I grow up Hello! I'm Mr. Brown. How do you do. Now I have a red bag to match my red gloves I wonder if there is anything interesting in this attic. I don't think I'll ever get married. What a beautiful scene of the park. Hello! May I help you. Mom I accidently knocked down the curtains I wonder if there are any kids in this suite. Would you mind bringing me a menu please. I think I'll pick this up how much? Oh no I was supposed to phone my wife at	1 1 0 1 1 1 1 1 1 1 1	1 1 1 1 0	0 0 0 0 0 0 0	0 1 0 0 0 0 0 0 0 0 0
	16B 16C 16D	six. I think four is the first no. Oh no my dime is stuck Hello! Gloria I'm sorry I phoned late but Hey Sally come and see my drawing	1	0	-	430
	17B 17C 17D 18A 18B 18C	Tommy you forgot his eyes. Here I'll show you how to draw it. there now I put in his eyes. I remember when I used to go to school. And then at four everyone went home. All my friends went different ways home.	1	1	1	1
	18D 19A 19B	I was younger. Hello remember me I'm George Brown And this is my wife Carol.	1	1	0	0
	19C 19D	Won't you please Come in. Yes thank you for a while.	1	0	entil .	-



Student Number	Picture Number	Student response		Cod M	0	
Manager out of the company of the control of the co	en de la compressión					
	20A	How will I ever get time to do all those things.				
	20B	I've got to wash the dishes.				
	200	Clean out the boy's bedrooms draus.	1	1	1	1
	20D	And I have to clean the kitchen then I'll be finished.				
	21A	See this is our dining room area here.				
	21B	And this is little Jan & John's bedrooms.				
	21C	Well how do you like it?				
	21D	Its very nice I; ll come back & see again one time	1	1	1	1
	22A	I wonder if John will eat that?				
	22B	Come John I want to see if you like this.				
	22C	Its over in that butcher shop over there.	1	0	0	0
	22D	The man will show it to you come over here				
	23A	Hello may I help you today.				
	23B	Would you care for any of these goods.				
	230	Yes I'd like six eggs please.	7	7	7	7
	23D	And also a quart of milk.	4.	1	1	T
	24A	Joan come and help me put away the linen.				
	24B	You aren't going to put my dolly up there				
	0.10	are you. No I'm going to put the sheets into the				
	24C	closet.				
	24D	Now you close that door & go play with				
	NYD	your dolly	1	1	1	1
	25A	Would you like to go to the cinema				
	25B	Hey look who's playing in it	~	_	_	^
	250	Here he makes his dive Let's go	1	0	0	0
	25D	I still don't know Billy				
	26A .	Look at my drawing he's yawning				
	26B	But you forgot his eyes				
	260	I'll make this eye closed is if he is	ח	٦	7	1
		yawning	7	1	<u>.</u> L	-l-
	26D	And this eye open to show he is not wide awake yet.				
	27A	T guess I'll start to shave now				
	27B	ringt 7!11 mut some lather on.				
	270	There now I'll just change the blade.	0	ave	0	0
	27D	Ough! That new hlade is really sharp.	U	profit	U	U
	28A	Took at my coat a button is coming our.				
	28B	Mathem could I so outside anyway.				
	28C	Its awfully cold out but I guess you can	1	1	0	1
		~~	1	1.		.du
	28D	Don't forget your mitts I don't want your				
		hands to freeze.				



Student Number	Picture Number	Student response	S		din	ng ' C
	29A 29B 29C 29D 30A 30B	Where abouts do you live George? I live right across from the cinema Whate suite no. is yours? My number is thirteen. Would you go & post this for me? Oh that reminds me I'd better get this letter away				1
	30D	I better make it fast or it won't arrive on the day I want it There I finally got it mailed.	1	1	0	0
B1 - 11	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16A 16B 16C 16D 17A 17B 17C 17D 18A 18B 18C 18D 19A 19B 19C 19D 2OA 2OB 2OC 2OD	I'll light the candles. Hey mac, look at this. She closed the door. Stick -em up. Boy, what a mess. She checks her hand bag. Boy, what a mess. The fountain of youth. Have you a reservation Madame. Can I dress up in your old cloths. Children come here please! Waitress I will place my order now. How much is this magazine Oh I had better phone Martha Let me see. 49.43 Now in goes the dime Hello Martha? Yes this is Gorge. Hey June look at the face I drew. Yes, But, where are the eyes? Here I'll draw a face for you. There, see, all it needed was eyes. I better not be late for work. Boy just wait till after work. Oh no the gates will be closed. Late for the first time this month. Well hello Fred! Where's Jane. I'm right here Luce. Hi. Please come in! My what a nice home, so big I have to clean this place up I have to do the dishes. Then do the laundry. And then clean the kitchen.	1 1 0 0 0 0 0 0 1 1 1 1 1 1 1		000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0



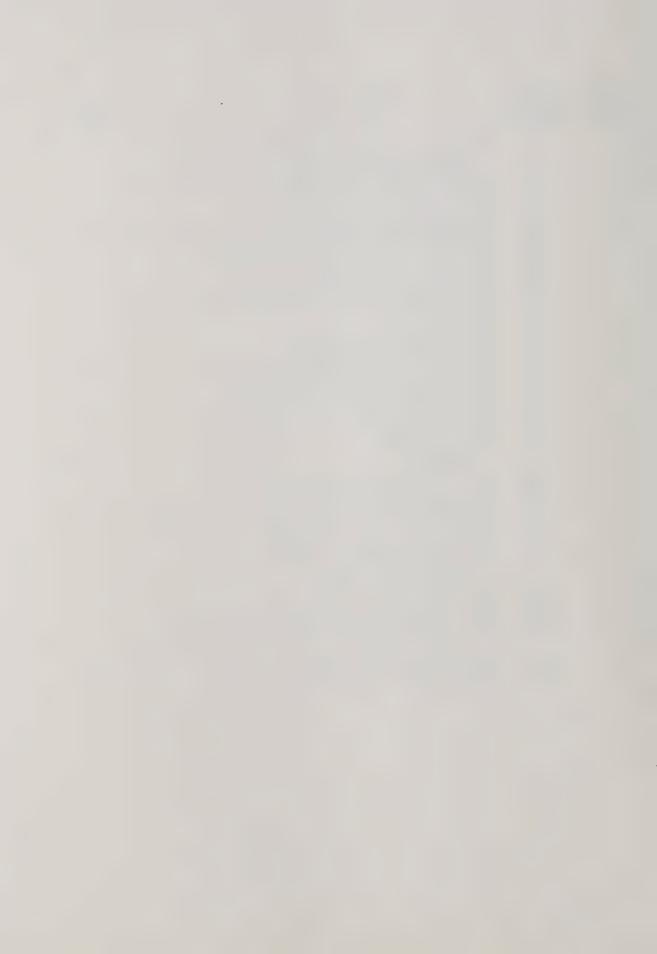
Student Number	Picture Number	Student response			ling T	
				¥.7		
	21A	Come on in Alice.				
	21B 21C	Oh no look at this mess.				
	21D	Oh-a, its too messy in there!	7	**	7	3
	22A	Yes but you still have a lovely home. I had better get some meat.	1	T	1	1
	22B	You want to come later?				
	22C	Look there having a sale.	1	0	0	0
	22D	You wait here Peter				
	23A	Come in Mrs. Jones.				
	23B	What would you like?				
	230	I'll have a half a dozen eggs.				
	230	and a quart of milk.	1	1	1	1
	24A	Jane come here.				
	24B	You want me to help mom?				
	24C	I want you to help with this linen.	7	7	0	0
	24D 25A	Carefull you don't drop any. Want to see a movie.	1	1	0	0
	25B	Hey look at those cool senes.				
	25C	Here's where he gets wipped	1.	0	0	0
	25D	But I have no mony.				
	26A	Look at this funny face.				
	26B	but you still forgot the eyes.				
	26C	We'll have one closed eye.	1	1	1	1
	26D	And one open eye.				
	27A	I think I'll have a shave				
	27B	Now for some lather.				
	27C 27D	Now I take my shaver & shave Ouch! This thing pulls.	0	_	0	0
	28A	Put your heavey coat on.				
	28B	Why?				
	28C	Because it's cold out.				
	28D	Don't forget your gloves.				
	29A	Hey, where do you live?				
	29B	Accross from the show.	7	٦	٦	1
	290	What number?	Τ	1.	1	1
	29D	13.				
	30A	I've got to post this.				
	30B	I better write a letter. There's only two days left.	1	1	0	0
	30C	I thing I'll air mail it.				
	30D	T OHILIS I III WILL INVOICE TO				
B1 - 12) 1	Oh good, it's a pin.	1		0	
אן - וע		Let me see that paper!	1	1	1	1
	3	Holm all of the people.	1		0	
	2 3 4	Tim getting out of here right now!	0	0	0	1
	5	There is a very funny little boy.	U	U	U	T



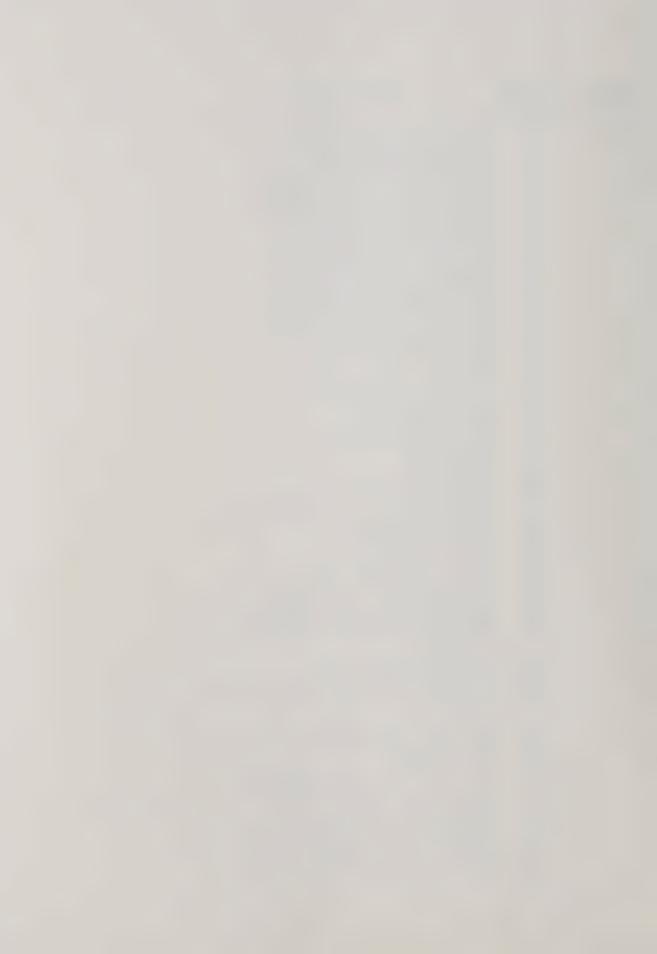
Student Number	Picture Number	Student response		Cod:	ing T	
	6 7 8	Won't you please come in? I must be careful not to lose my purse. Boy, this sure looks like a spooky place. Jane is writing home of her parents.	1 1 0 0		- 0 0 1	- 1 0 0
	10	A great crowd gathers to see the beautiful fountain. May I help you, Madame?	1	0	0	0 -
	12 13	Mary shows her mother that her costume is ruined. Why are you children here?	0	0	0	0
	14	Waiter, please come here and bring the menu.		1	1	1
	15 16A 16B 16C	I'm sure my wife will like this one. Oh my, It's time to call my wife! I have to dial the number fast. Oh no! It doesn't work. I'll push the	1	0	***	
	16D 17A 17B	button. Good. I finally got her on the phone. Did you draw that? No. Somebody forgot to put in the eyes.	1	0	650	-
	17C 17D 18A 18B	I'll show you how to draw a face. see, I didn't forget to put the eyes in. Everyone is rushing to school. School is dismissed.	1	1	1	1
	18C 18D 19A 19B	The school is closed for the holidays. It will open after the holidays. Won't you please come in? Oh. Is this your wife?	1	1	1	0
	19C 19D 20A 20B	Come in and I'll give you some tea. That will be fine. We're delighted. What are they all doing? Mrs. Jones is doing the dishes.	1	0	and	
	20C 20D 21A 21B	Mrs. Brown is cleaning up the dining room. Mrs. White is wiping the kitchen counter. I'm sure you'll like this dining room. This is the child's bedroom.	0	0	1	1
	21C 21D	Do you like it? Oh, I'll have to talk it over with my husband. I think I'll go to the butcher shop tomorrow		1	0	0
	22A 22B 22C 22D	There it is. We're here already. I think I'll find some fine meat here.		0,	0	1
	23A 23B 23C 23D	Didn't you know? This is a grocery store. I would like a half a dozen eggs, please. I might as well have a bottle of milk, too.	1	1	1	1



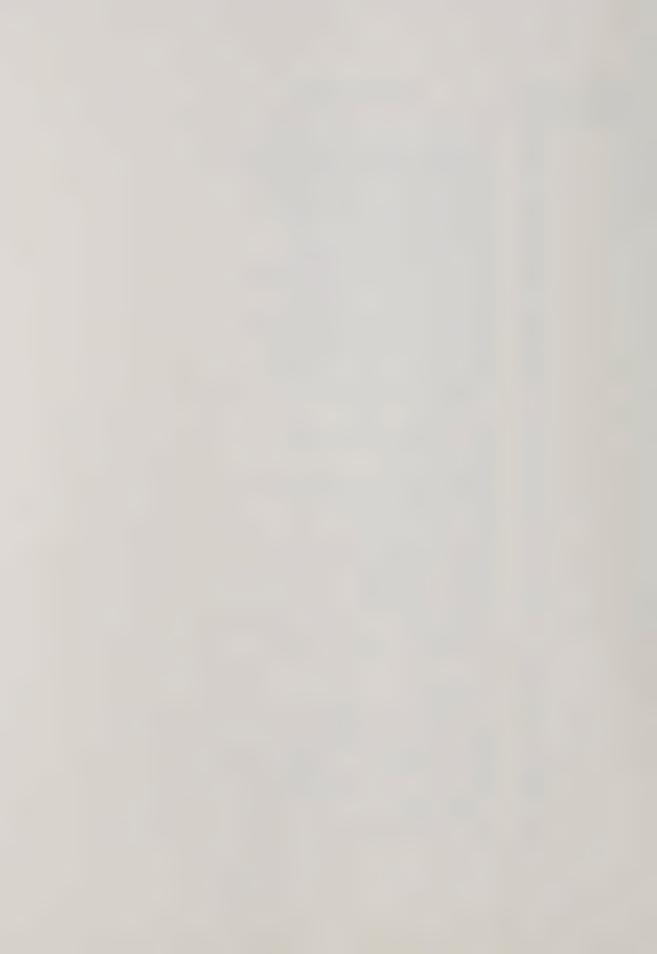
Student Number	Picture Number	Student response			din	
	The state of the s		S	<u>M</u>	1	C
	24A	I have to put all of these towels in the				
	24B	Susie runs away because she doesn't want to help.				
	24C	Her mother calls her back.				
	24D	Soon they finish putting the to				
	25A	Soon they finish putting the towels away. Would you like to go to the movies with me?	0	0	0	0
	25B	You can take you're pick.				
	25C	You might like this one. I do.	-			
	25D	Gee! I really don't know which one I want	1	0	0	0
		to see.				
	26A	This face has no eyes on it!				
	26B	Did you forget the eyes?				
	26C	No, but I'll show you how to do them.	7	1	0	0
	26D	Oh, no! I made a mistake!	7	1.	U	0
	27A	Boy, do I feel sleepy this morning.				
	27B	I'll have to wash my face real good.				
	27C	Now I'll shave.				
	27D	Poor Mr. Jones. He cut his face while				
		shaving.	1	****	1	0
	28A	Do I have to wear my coat today?			200	
	28B	Look! It looks so big on me.				
	28C	Her mother shows her how cold it is outside.	.0	1	1	1
	28D	I think you'd better wear your gloves, too.				
	29A	What are all those buildings?				
	29B	Look. The theator is right across from				
		the apartment block.	1			
	29C	I wond er what the number is?	1	0	0	1
	29D	See! The number is 13.				
	30A	Jane asks Mary to mail some parcels for her.				
	30B	Mary takes the letters out of the envelope to look at them.				
	30C	She put them in her purse for 2 days.	0	0	0	1
	30D	Then she goes to mail them.				



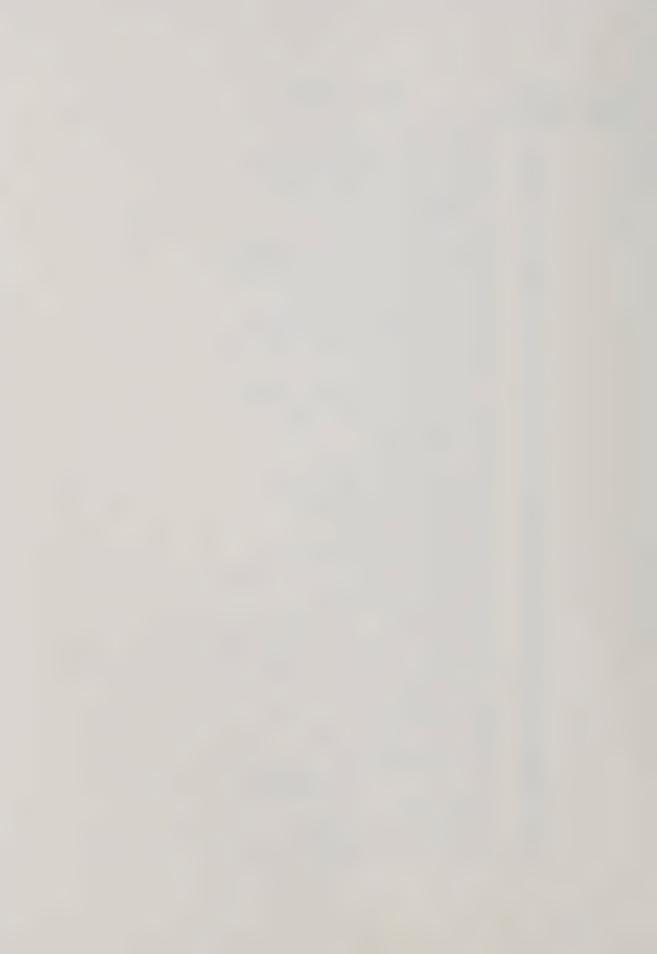
Student Number	Picture Number	Student Response		odi M	ng T	C
A2 - 1	1A 1B 1C 1D 2A	Oh! its moms birthday cake I'll light the candles. Oh! no you don't I will. Boy I never get to do anything. May I see the sports section	1		1	
	2B 2C 2D 3A 3B	Oh! No get your own paper See mines gone anyway Ah! Here it is here you go. Would you mail this for me. Just takt it in there.	1.	0	1	0
	3C 3D 4A	All you have to do is go up. That girl is pobably talking I'm going out.	1	1	0	0
	4B 4C 4D 5A 5B 5C	There the doors locked. Ah mary. I don't think Ill go I'll put on dads coat And his coat too! Oh some shoes too!	0	***	0	0
	5D 6A 6B	Now I look like dad does! Hello Joan Id like you too met bob	1	1	1	0
	60 6D 7A	Oh high bob. Come in and make yourself at home. Hears your handbag	1	1	0.00	
	7B 7C 7D	And your gloves. Now too get ready. Ok I'm just about ready to go.	1	1	0	0
	8A 8B 8C 8D 9A	Boy Im going to find alot up here. Look at all this old clothing Hey Jim wound you mind looking for an old hat I found it dad. I better mall my letters.	0		0	0
	9B 9C 9D	I'd better not make a mess of writing them. Now to get the stamps. And phone home to tell them Im come.	1	0	1	0
	10A 10B 10C 10D 11A 11B 11C	What a sight! Look at all the grass and bushes Look at all the old geckers, too! What a nice fountain Hello madam are you coming in. Would you like a separate table. There's one ne's leaving now. See now you may have your table.	0 1	1	0 -	0 -



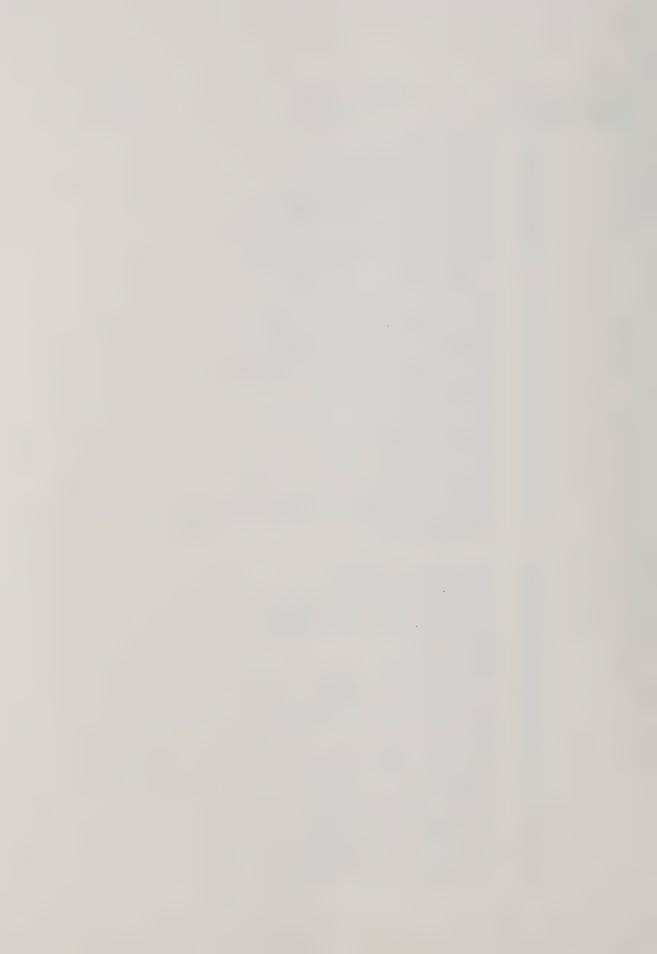
Student Number	Picture Number	Student Response	S		ling T	S C
		The second secon			-da	an-ordinament
	12A 12B 12C 13A 13B 13C	Just put the linen down there. right down beside the undershirts Where should I put this quilt Hello! is your husband home. I'm hangng up my coat okay Oh high Jim. High	1	1	1	1
	13D 14A 14B	Where is Billy and Bettsy Im going into the restront Ah! this is a good enough place	1	1	0	1
	14C 14D 15A 15B	Please! watress the menu Im going to have a steak. Could I see that magazine please Its call Claire sir It's 35¢	1	1	1	1
	15C 15D 16	I'll see if I have the change Thats quite a good magazine operator would you give me a mr smiths	1.	0	-	-
	17 18 19 20 21 22 23 24 25 26 27 28 29	number What a funny looking picture. It's the boy how time flys. Come in please. I'd better go pack your lunch I don't know how I lost my watch Lets go too the bakary May I have a glass of milk Close the closet, dear. That was me playing baseball Is that a womans or mans fase Ouch! I cut myself Look! theres John I wonder whats the matter with the elevator Two days have gone by already		0 1 1 0 1 1 1 0 0 0 -	- 0 0 0 0 1 1 1 0 0 0	- 0 0 0 0 0 0 0 0 0 0 0 0 0 0
A2 - 2	1A 1B 1C 1D 2A 2B 2C	What a beautiful cake. But it needs candles. I'll light the candels. No, Jane, don't light them. Okay, I won't light them. Are you looking at the Sports Pages? Yes, but I am not finished. You can look at the picture on the	1	0	1	1
	2D	front page. Can I have the paper no?	1	1	1	1



Student Number	Picture Number	Student Response			ing T	
	3A	Here's the post office.				
	3B	Can you mail this parcel for me?				
	30	Look at the line-up.				
	3D	I'm not going there no more. Its to crowded.	1	1	0	0
	4A	I'm nere at last.	_		_	_
	4B	Now, if I can only open the door.	0	-	0	0
	4C	Hello. Do you want to go shopping?				
	4D	Who's that girl by the elevator.				
	5A	This hat is a bit to big.				
	5B	My dad's coat is way to big.				
	5C	Here son. heres my old shoes.	7	7	-1	7
	5D	I look funny in my father's clothes.	1	1	1	1
	6A	Hello, may I help you?				
	6B	Can I help you?	7	0		
	6 c	I would like to see Mr. Jones.	1	0	turiti.	***
	6 D	You may come in to see him now.				
	7A	Here dear, take your purse.				
	7B	And your gloves.	7	0	0	7
	7C	Put your purse over your arm.	1	0	0	1
	7D	And put on your gloves.	0	_	0	0
	8A	This attic is nearly emptty.	U	_	U	U
	8B	I wonder whats in here?				
	8C	Did you find anything Tom.				
	8D	Yes your hat. See.				
	9A	I mailed the letter yesterday.	٦.	0	1	0
	9B	I wrote it to Mr. and Mrs. Jones	٠.,	Ü	-1-	
	90	I wonder if I put the right postage on.				
	9D	I'll phone them and ask.				
	10A	There's nearly no one here.				
	10B	There are a few more people in this area.				
	100	There are 3 more old men and women. This area of the park is more crowded.	1		1	0
	10D	I would like to eat something.		0		
	11A	I would like to ear bomothers				
	11B	Do you want a table? That man took the last table.				
	110	But he is leaving now.				
	11D	Bring me those sheets.				
	12A	Lay them down here.				
	12B	What shall I do with your dress.	1	1	1	0
	120	Layit down on the bottom shelf.				
	12D	Hello John, come in.				
	13A	I'll hang my coat here.				
	13B	III Tohn Hello Harry.				
	130	Do you have and children Harry?	1	1	0	1
	13D	po you have and				



Student Number	Picture Number	Student Response	S	Cod	-	
	14A 14B 14C 14D 15A 15B 15C 15D	Heres a restraunt. Lets sit at this table. Waiter. Menu please. These prices are so high. I would like to buy a magazine. How about this one. Its only 40¢ I have the money here. Thank you. It looks like a good	1	1	1	1
	16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	magazine. Mr. Smith finished his call. Joe is drawing a face. It is the first of the month today. Welcome, Mr. and Mrs. Smith. Mother is washing the dishes. Are you waiting for Dr. Flett, too? There's the butcher. The milk is on the table. Please pick that cover up for me. This is a good picture. He is drawing a person's eyes. He is shaving. Carol is coming up the sidewalk There is something hanging over the door Shes picking up the paper and putting it in her purse.	0 0 1 1 1 1 0 0 1 1 1 0 0	0 0 1 0 0 0 0 0 0	- 1 0 - 1 0 0 0 0 0 0 1 1 0 0 0	- 0 0 0 0 0 0 0 0 0 0 0 0
A2 - 3	1A 1B 1C 1D 2A 2B 2C 2D	You put the candles on. I'll get the matches. You my not light the candles. I'm dout to blow the candles. Does it have an article on sports Yes it does Here they are I'll take the newspaper instead Here's the post office	1	0	0	0
	3B 3C 3D 4A 4B 4C 4D 5A 5B 5C 5D	You have to mail this parcel You have to wait in a line Here you do it. I'm going out to shopping I better lock the door Oh here is Mrs. Dupont Do you know that lady. I'll wear this big hat. I'll get this long coat I'll wear these old shoes Now look like my father	0	1 -	0	0



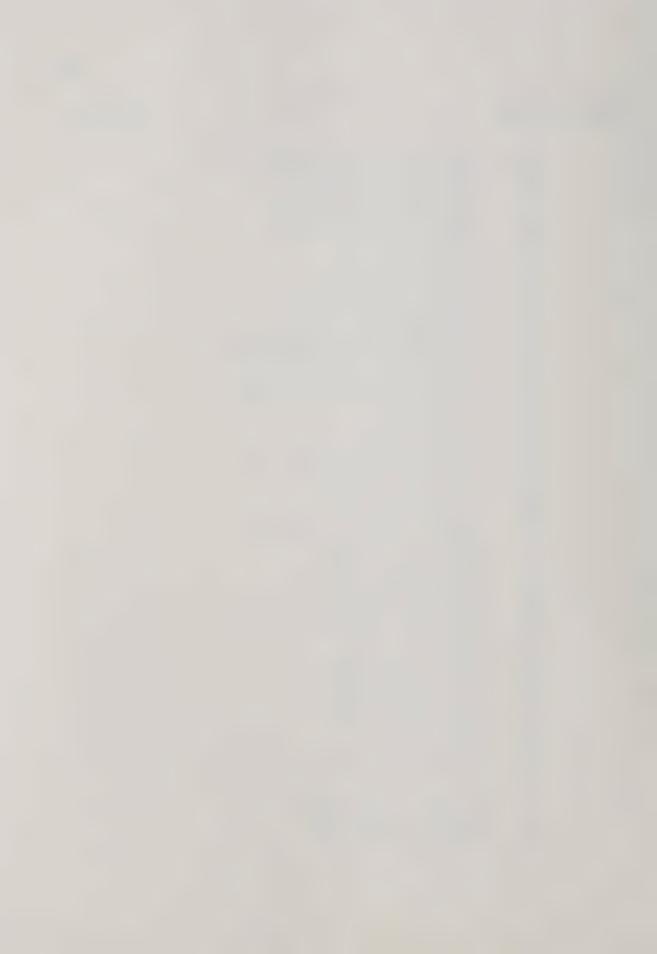
Student Number	Picture Number	Student response	S	Cod	ling T	
	6A	Oh hello Jan				
	6B	Oh hello John				
	6C	Jan and I came to visit you	1	0		
	6D	Come in	do	U		_
	7A	Here's your purse				
	7B	Here's your gloves				
	7C	Put on your purse	1	0	0	1
	7D	Now put on your gloves				
	8A	This is the attic	0	6748	0	0
	8B	What's in here				
	80	What are you doing here?				
	&D	Oh just looking for this hat				
	9A	Should I mail this letter	7	0	7	_
	9B	I will not write to them	1	0	1	0
	90	How many stamps do I need				
	9D	I'll make a telephone call				
	10A	Look at these trees				
	10B 10C	Look at this view Look at that man sleeping				
	100 10D	Look at that fountain	1	400	0	0
	11A	Oh hello Madame	1			
	11B	Would you like a seat	200	cales		
	110	I get you a seat overthere				
	110	See that man is going				
	12A	Here give me that load				
	12B	Put it by here				
	120	whatshould I do with this?	1	1	1	0
	12D	Put it here too				
	13A	Oh hello Jan may I come in				
	13B	I'll hang my coat				
	13C	Hello John	7	7	0	0
	13D	Where are the girls?	1	1	0	0
	14A	Let's go over there				
	14B	Lets have a seat	1	1	٦	1
	14C	May I have the Menu?	alo	alla.	alla	
	14D	What do you wat?				
	15A	I would like to have that journal				
	15B	It's 85 cents Here is the money				
	15C	Thank you	1	1	****	0-10
	15D 16	Hello operator	1.	1		-
	17	This is a drawing of you	1		0	
	18	It's the first of May	1		0	0
	19	Come in	1		_	-
	20	Mom can I help you	1	_		0
	21	T have to leave	1	1	0	0
	22	Let's get some meat from there	T	上	T	1



Student Number	Picture Number	Student Response	S		ling T	-
	23 24 25 26 27 28 29 30	There's the milk Close the door That's a picture of me This boy is sleepy I have to be careful Look there's Bob What floor Two days have passed	1	0 1 0 1	0 1 0 0 0	1 0 0 0 0
A2 - 4	1A 1B 1C 1D 2A 2B	My what a delicious cake! I'll light one of the candles Don't play with matches, Sue! But I won't anymore. Can I join your group? please! Sorry, old boy, you're too fat.	1	0	1	1
	2C 2D 3A 3B	But you can take de-weighting jobs. Gee, thanks. Will you please take my parsel there? Why, don;t you take it?	1	0	0	0
	30 3D	Because there's such a crowd! I'll ask Betty and Joan.	1	1	0	0
	4A 4B 4C 4D	I'm so glad I'm at home! Oh, the key is stuck. Hey, what are you doin' here? You'd Better go back Home where you belong This hat is pretty big.	0		0	0
	5B 5C	So is this coat! but it'll do. Do I have to wear those old shoes?				
	5D 6A 6B	Oh, well, its better than nothing. Hello Ann, Where's Paul? Oh, I didn't see you, Hi.	1	1	0	0
	6C 6D 7A	I'm glad you invited us. Won't you come in? Here is a new purse Lynn!	1	0		ents
	7B 7C	And some new red gloves Goodby mother	1	0	0	0 ·
	7D 8A 8B 8C 8D	I have to wear my beautiful Gloves Boy, this attic is keen. Hey, whats in here? Hey, boy, what are you doin!? I found this old hat in there.	0		0	0
	9A 9B 9C 9D	I better mail this letter. Maybe I shouldn't I can't pay this postage. I'll phone them!	1	0	0	0



Student Number	Picture Number	Student Response	S		ding T	C_
	10A 10B 10C	Isn't this a wonderful day in the park? Yes, the scenery is beautiful. Now, for a short rest.				
	10D 11A 11B	And a drink at the fountain. I req uest a table please! Sorry, every one is taken.	0	0	0	0 -
	11C 11D 12A 12B	Look there is one! He is Leaving! Put them in here dear. Right beside these				
	12C 12D 13A 13B	What shall I do with this? Put in there too. Hello Honey, what are you don' tonite? I thought you would be out today.	1	1	1	0
	13C 13D 14A 14B	Hi Jim, can I help By the way, where are the kids? A table please Yes this one will do.	1	1	0	1
	14C 14D 15A 15B	The menu, please I don't know what I will have. What is this about? It is about Madame Claire!	1	1	1	1
	150 15D 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	I'll take it, here. Thanks a lot sir! Is this a coin return button? This is our teacher! It is spring today! Will you please come in? May I help? Mother? I'm sorry I dropped your dish There's Mr. Reed. There is the milk. Today use that dress! That is my brother. I am drawing father! Ouch, I cut myself? There's old man Flit! What time is it. I must go now to the post office.	1	1	- 0 0 0 0 0 0 0 0 0 0 0	
A2 - 5	1A 1B 1C 1D	Should I light the candels Im going to light them Stop don't light them I already lit them	1	0	1	1



Student	Picture	ture Chadoni D.	~~1						
Number	Number	Student Response	a		din				
			S	M		C			
	2A	Here is the sports pages							
	2B	Hi look at the newspaper							
	2C	There are so many activities in here							
	2D	Let me see	1	. 1	1	1			
	3A	Im going to the post office							
	3B	Do you want to come with me							
	3C	There are so many people							
	3D	I think thats my sister	1	1	0	0			
	4A	I better lock the door							
	4B	It must be stuck`	0	000	0	0			
	4C 4D	Do you want to come with me							
	5A	Let's not go down the elevator This hat is too big							
	5B	The coat is too long							
	5C	Try these shoes on							
	5D	There all too big on me	1	1	0	0			
	6A	How do you do Miss Brown	ala			U			
	6B	Hi I am her husband							
	6C	Would you please come in	1	0		1110			
	6D	We will stay only a while							
	7A	My I take a look at your perse							
	7B	Your gloves also							
	7C	The perse is very pretty	1	1	0	1			
	7D	So are the gloves							
	8A	Where did I put that hat	0		0	0			
	8B	It must be in the chest							
	80	What are you looking for							
	8D	I look for my hat. Here it is							
	9A	I forgot to mail the letters	1	0	0	0			
	9B	My sister also forgot	1	U	U	0			
	90	She forgot to buy the stamps too							
	9D 10A	Id better phone her The park is very beautiful							
	10A	It has nice grass and trees							
	100	It is also a good place for old people							
	10D	The park has a beautiful fountain	1	multi-	0	0			
	11A	Do you have a table for me	1	0	-	-			
	11B	I think there is one							
	11C	There's a man sitting in it							
	11D	Oh he just got up							
	12A	Where should I put these							
	12B	Put them over here		_					
	120	And where should these be put	1	1	1	0			
	12D	Put them in the bottom shelf							



Student Number	Picture Number	Student response		Codi M	-	C
	13A 13B 13C 13D 14A	May I come in Hany you coat up here! Hi Mr. Brown I forgot to bring the children There is John White	1	0	0	1
	14B 14C 14D 15A 15B	Whould you pay the check Whould you come here for a min. Do our lunch cost this much This looks interasting It's called Chaire	1	1	0	0
	150 15D 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	Here's the money It seem I read this before operator give me the polic here is a picture of myself today is May the firist would you please come in I forgot to do the dishes I have to go shopping There's the store Do you want some milk help me take the sheets downstairs This is a picture of me when I was small This is how teacher looks when he's tired I cut myself. may I go out and play I went up the elevaotr This is an old calendar,	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 1 1 0 0 1 0 0 1 0 0 1	- 0 0 0 0 0 0 0 0 0 0 0 0	- 0 0 0 0 0 1 1 0 0 0 0 0 0
A2 - 6	1A 1B 1C 1D 2A	The girl is going to light the candles The girl goes for some matches Her father says for her not to start She says she has. Do you like sports?	0	0	0	0
	2B 2C 2D 3A 3B	No. I just like reading about them Here are some good sports activities Let me borrow the paper. There is the post office. Go and mail this parcel.	1	1.	1	1
	3C 3D	Wait in line over there. I will meet you there later.	1	1	0	0
	4A 4B 4C 4D	A lady is closing the door Now she locks it. Her friend calls to her. The girl says to use the elevator.	1	***	1	0



Student Number	Picture Number	Student response	S		ding T	-
	5A 5B 5C 5D	The boy tries on his father's hat. The boy tries on his father's coat. His father hands him his shoes. The boy is dresed up in his fathers clothes.	0	0	0	0
	6A 6B	The girl greets the lady. The girl greets the man.	0	0	0	0
	6C 6D 7A 7B	The girl asks them to come in. The girl's mother hands her her purse. She hands her her gloves	0	0	greet.	-
	70 7D	The girl puts her purse over her arm. Now she puts her gloves on.	0	0	0	1
	8A 8B 8C	A boy is in the attic The boy looks in a chest or box. His father asks him what is he looking fo	1 r.	***	1	1
	8D 9A 9B	The boy was looking for a hat. The lady plans to mail a letter. The lady decides not to write it to her parents.	0	0	1	0
	9C 9D 10A 10B 10C	She is not able to finds some stamps. She decides to use the telephone. You pass through a gate bordered by bars. You come into a square. Old ladies and gentlemen are resting on benches.		V	مقه	O
	10D 11A 11B 11C 11D 12A	In the middle is a fountain. May I help you? Would you like a table? That one is almost avleable You may have the table The girls bringing some clothes.	1	0	0	0
	12B 12C 12D 13A 13B	He mother says to put th T-shirts there The girl asks where to put the dress The mother says by the t-shirts. The lady greets the man at the door. The man hanges his coat up the man says hello to her husband	0	1	1	0
	13C 13D 14A 14B	the man asks where are the children The lady points to a restaurant They seat themselves at a table.	0	1	0	1
	14C 14D	A man asks for the menu. The man wonders what the other wants.	0	1	1	1



Student Number	Picture Number	Student response	a		ding	-
	15A 15B 15C 15D 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	The man askes to see the book The salesman shows it to him The man says he'll take it. The man says it looks like a good book. The man is phoning The boy is drawing a face Is it the first of May Would you please come in Mother will do the cleaning Where is all the furnichure There is the baker There is the milk. Would you take that for me. This is a picture I drew. He is drawing a oval face. The man is taking a shave Where does this door lead The lady is leaving on the 25th.	0 0 0 1 1 1 1 1 1 1 1 0 1 1 1 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0		- - 0 0 0 0 0 0 0 0 0 0 0 0
A2 - 7	1A 1B 1C 1D 2A 2B 2C 2D 3A	I finished the cake isn't it beautiful Now I will lite the candels Stop you will burn yourself Now can I blow them out. Who wone the baseball game. come look for yourself thanks now lets see. May I have it Theres the post office	1	0	1	1
	3B 3C 3D 4A 4B 4C 4D	Would you post this fore me You go over there I am waiting to post this fur my sister I better close the door and I will lock it. Hello Mrs. Brown There goes my sister		1 -	0	0
	5A 5B 5C 5D 6A 6B 6C 6D	Heres a hate that is to big here is a coat that is to big Here are a pair of shoes for you Now everything om me is to big glad to meet you come in please I'm glad you could make it come in and meet the others	1	1 0	0	0



						K.,	LL
Student	Picture	Student response		Со	dir	1g	
Number	Number		S	14			<u></u>
	7A	here is your purse.					
	7B	Don't forget your gloves.					
	7C	put your purse over your arm so you					
	, -	won't loose it	7	^	^		
	7D	Put your gloves on because its cold out.	1	U	C)]	L
	8A	where is that trunk	0		С		
	SB	oh here it is	U	prop) (J
	8C	where is that hat					
	8D	this hat is much too big					
	9A	That reminds me.					
	9B	I write to mom & dad to come & visit me	1	0	1	()
	90	I go get the stamps				,	
	9D	first I will have to pur money in the					
		stamp machine					
	10A	Lets go into the park for awhile					
	10B	lets go over there					
	100	lets site down for awhile					
	10D 11A	Theres a big fountain over there	0		0	0	1
	11B	we don't have one single seets exercising	1	0	end-		
-	110	We don't have any single seats availible That man will leave soon					
	11D	You can have that table know.					
	12A	Bring me the sheets.					
	12B	put them on that shelf.					
	12C	where do I put this	1	1	1	0	
	12D	in the cupboard bottom shelf					
	1.3A	come in Dad					
	13B	I hang my coat up first					
	13C	Hi son. Hi dad.		_			
	13D	Where are the children?	1	1	0	1	
	14A	lets go in there					
	14B	lets sit here	7	3	7	7	
	14C	waitress menu please	T	.1	Т	Т	
	14D 15A	I guess we will have this. may I see that paper					
	15B	how much is it					
	15C	I'll by it					
	15D	thanks goodbye mister	1	1	****	210	
	16	Emergency the elevator has stopped	1	0		****	
	17	I am drawing a picture	1		1	0	
	18	Today is Mar. 1	1		0		
	19	come in please	1	0	***	9-49	
	20	I am doing the dishes		1		0	
	21	I don't know where he is		1	0		
	22	There is the Pastry shope	1	0	0	0	



Student Number	Picture Number	Student response	S	Cod		
	23 24 25 26 27 28 29 30	heres the milk close the dore please Theres a picture of my brother That picture looks sad. Mr. Al is shaving There comes your Dad There your elevator Todays the 23rd	1 1 1 1 1 1 1	1 0	1 0 0	0 0 0 1 0
A2 - 8	1A 1B 1C	It would look better lit. I'll light them now No dear, you must not use match let me light it That's is better Are reading sport section	1	0	1	1
	20 2D 3A 3B	Yes you'll have to wait till I'm finished You read this part while I read this I'm to get a stamp for this parcile So after I get a stamp	0	0	0	0
	30 3D	I'll be at the bank And you meet me here at the bank	1	0	0	0
	4A 4B 4C 4D 5A 5B 5C	I guess no one is home Oh dear, the door is locked Do you know where Mrs. Taylor is Oh there she is it is all This hat looks funny And this coat is to big David his some shoe you'd look funy with them	0	-	0	0
,	5D 6A 6B	See I don't Well hello Mary Welcome John	1	1	1	0
	6C 6D 7A	How do you do Anne Well don't just stand there come in Bev I bought you a new purse	1	1		
	7B 7C	And some gloves. The gloves and purse match	1	1	0	0
	7D 8A 8B 8C 8D	The gloves fit beautifl Boy! I never been in the attic before I wonder what's in this old chest You should find my hat I wore year ago	0		0	0



	Picture	Student Response			ling	
Number	Number		S	M	<u>T</u>	C
	9A 9B 9C 9D 10A	I'd better mail my letter today But it would take long And i'd have to spend money on stamps It would be cheaper I like visiting park	1	0	0	0
	10B	It's so beautiful with trees and green gr	a.s s			
	100	Most of the old fdk come and rest here				
	10D	And I like sailing my boat in the fountai	n0		0	0
	11A	Welcome Madame	1	1	-	***
	11B	Would you like a table for one				
	11C 11L	That man should be finished soon				
	12A	He is leaving now, you may have that one I show you where to put it				
	12B	It goes below the undershirts				
	120	Where should i put this dress	7	1	٦	0
	12D	Right beside the undershirts				
	13A	Hello Sull				
	13B	Where is Tom?				
	13C	Oh hi Tom!				
	13D	I wonder where the two children are?	1	0	0	1
	14A	Oh let eat here!				
	14B	This is a good table.				
	14C	Oh waiter bring the menu	1	1	1	1
	14D	I don't know what to have				
	15A	How much is that picture				
	15B	It's 85¢				
	15C	Okay I'll take it here's the money	7	0		
	15D	I think it is worth it's money		0	***	
	16	I use the emergency phone. Draw a head of a man with chalk		0		0
	17 18	May the 1st is full of flowers		1		1
	19	Oh, John and I thank you for inviting us		0-		_
	20	I better start at those dishes now	1	1	1	0
	21	I don't know if I can go shopping	1	1	0	
	22	There is our new butcher	1	0	0	0
	23	That milk is clean and fresh		0		1
	24	Eck up all the sheet in the closet floor		1		0
	25	This picture is the best		0		0
	26	Draw a man with his eyes shut		0		1
	27	Mr. Hill sings while he shaves		1		0
	28	There is grandpa.	1	1	0	0
	29	Do you have a new window	T	7		0
	30	I must remember what to write on my shopping list	1	1	0	0



Student	Picture	Student response		Cod	ling	7
Number	Number		S	N_{i}	T	C
A2 - 9	1A 1B 1C 1D	I think I should like the candles So I got the box of candles Bert Dad said Yes	1	0	1	1
	2A 2B 2C 2D 3A 3B 3C	May I see the paper. Wate till I'm finish I give it sport & I take something else Then they switched I'm go into the post offic I got a parsil from the post offic Look at the long line	0	0	0	0
	3D	T in the contract of the land	0	0	0	0
	4A 4B 4C 4D	I just got out of my house But I forgot something I neighour called me in her house Do you no that girl	0	drop	0	0
	5A 5B	I think I'm put on my father's hat And my father's coat				
	5C 5D 6A	So my father give me his shoes too And I looked funny said dad Hi did you see my husband	1	1	1	1
	6B 6C 6D 7A	Hi did yousee my wife Yes I seen you wife she went home Thanks for helping us Thanks for finding my purse	1	0	***	01/0
	7B 7C	Heres your gloves that were in my purse	0	0	0	0
	7D 8A	and put on my gloves I wonder if there is any good stuff around here for my father	0	6-49	0	0
	8B 8C 8D	Maybe in this box A man saw me looking And gave my a hat				
	9A 9B 9C	I have to sent a letter To my mother and father I better go get some stamp	1	0	0	0
	9D 10A 10B 10C 10D 11A 11B 11C 11D=	Let go into the park Its a beatifully park & many people There are mostly old people There a big pond at the centre Would you have seat for me Yes I think we would One like that one. There is one.	1	0	0 -	0 -



Student Number	Picture Number	Student response	S		ling T	-
	12A 12B 12C 12D 13A 13B 13C	Where would you like me to put these Right here, please. There would yo like me to put this Right over in the corner Hi, is your husband home. I'll just hang up my coat Hi Mr Smith. Hi	1	1	1	0
	13D 14A 14B	I wonder if they have children There he is Saying Hi to every	1	0	0	1
	14C 14D 15A 15B	My your bring a menu, please, over here What are you going to have I like that picture How much will it cost. 85¢ sir.	1	1	1	1
	150 15D 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	Here is 85¢ for it. It sure is nice. making a phone call pressing a drawing a face Is May the time for flowers Please, come in I should have did the dishes There is the busher. There is a mike jug Will you please get some blacket. Look at this picture Do you like the face I am going I just cut the self with a razer Would you like to go outside Are you taking the elevator	1000111001100	0 0 1 0 0 0 0 1 0		- 0 1 - 0 0 0 0 0 0 0 0 0 0 0 0 0
A2 - 10	1A 1B 1C 1D 2A 2B	That's pretty I'm gang to light the cake Don't light the candels yet. Don't blow yet You like Sports bye, thanks for the paper	1	0	1	1.
	20 2D 3A 3B 3C 3D	I like sports I want the paper, No I want it. Will you come with me Will you take this for me That is my mom and dad		0	0	0
A2 - 10	17 18 19 20 21 22 23 24 25 26 27 28 29 30 1A 1B 1C 1D 2A 2B 2D 3A 3B 3C	Is May the time for flowers Please, come in I should have did the dishes There is the busher. There is a mike jug Will you please get some blacket. Look at this picture Do you like the face I am going I just cut the self with a razer Would you like to go outside Are you taking the elevator That's pretty I'm going to light the cake Don't blow yet You like Sports bye, thanks for the paper I like sports I want the paper, No I want it. Will you come with me Will you take this for me That is my mom and dad		0 0 0 0 1 0 0 0 1 0 0		



Student Number	Picture Number	Student response	S		ling T	
	4A 4B 4C 4D 5A	Miss Baker is going out. Miss baker is home Are you home now Who is that lady over there This hat is sure big	1	ding	1	0
	5B 5C 5D 6A	The sleeves are long Here put these shoes on too All the clothes are big Thanks buy.	1	1	0	0
	6B 6C 6D 7A	Is she here. No she just left Do you know were she went. Come in Here's your purse.	1	0		-
	7B 7C	Here's gloves to math. That's a nice match.	3.	1	0	0
	7D 8A 8B 8C 8D	It's cold. I'm going to put my gloves on What a spooky place. There sure are a lot of things Stop I see you boy Can I have this hat	0		0	0
	9A 9B 9C 9D 10A 10B	Shirly can I work Sirly's phoning Let's go to the park	0	0	0	0
	10C 10D 11A 11B 11C 11D	Could i help you All by myself. There's a seat over there. Now you may go there. Watch you don't drop them	0	0	0	0 -
	12B 12C 12D 13A 13B	Pick these up after. Put them there or (Pick these up) Could I see your husband Where is he.	0	0	0	0
	13C 13D 14A	Hi - come in Where's your children Let's go over there.	1	1	0	1
	14B 14C 14D	Let's sit down. Come here we want a menu What are you going to have	1	1	1	1.



Student Number	Picture Number	Student response	S		ding T	C
	15A 15B 15C 15D 16 17 18 19 20 21 22 23 24 25 26	Could I have that one This one How much is it Well, bye. thanks alot. Mr. Joan's is phoning. He is drawing a picture. Spring is hear. come in Do you want any help with dishes I sorry I was late. Look at that fat man He wants some milk. Don't put the door back to far. I like that picture	1 0 0 1 1 1 1 1 0	1 0 0 1 0 0 1 0 0	- 1. 0 0 0 0 0 0	- 0 0 0 0 0 0
·	26 27 28 29 30	This is what you look like. Oh! I hurt myself. Look at all the people outside. Is it going up or down Two days alredy went buy	1 0 1 1 1	0 1 1	0 0 0 0	0 0 0 0
A2 - 11	1A 1B 1C 1D 2A 2B	A girl sees a birthday cake See was going to light them Her father says No! I didn't burn myself. A man likes sports. A man said Hi	0	0	1	1
	2C 2D 3A 3B	He was looking at sports paper. The man said "Can I see it?" An old Post office.	1	1	1	1
	3C 3D	People in the Post office.	0	0	0	0
	4A 4B 4C 4D 5A	A woman coming out of a room A woman is opening a door Two women talking together Two women talking together A boy with a hat on	1	preside	0	0
	5B 5C 5D	A boy with a coat on A man giving him a pair of shoes A boy with a hat, gloves, shoes, pants	0	0	0	0
	6A 6B	A woman greeting a woman A woman greeting a man A woman talking to the man	0	0	900	***
	60 6D	A man and woman entering her house				



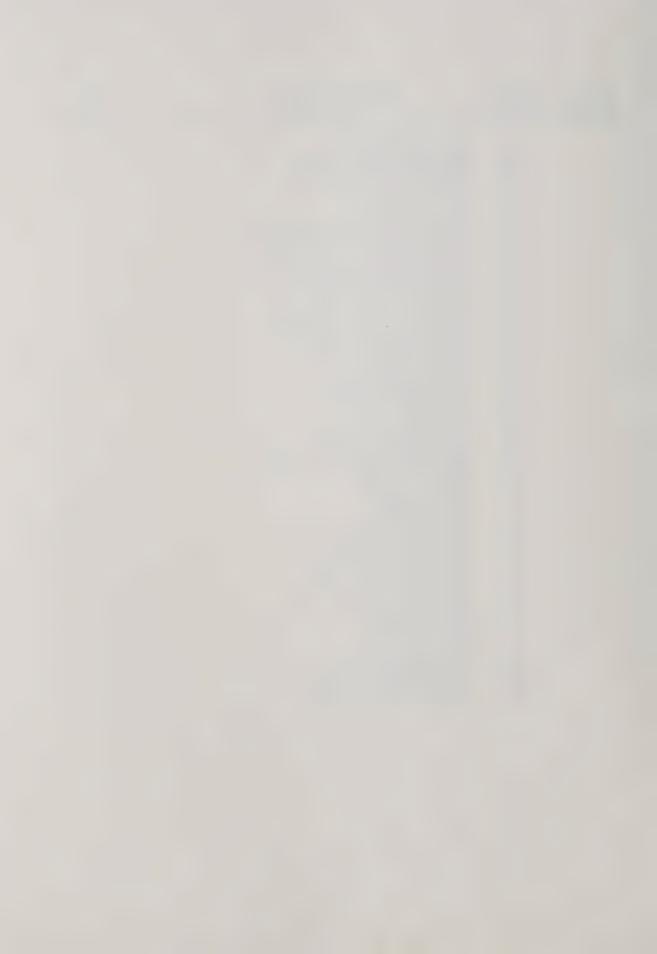
Student	Picture Number	Student response		Cod: M	_	
Manner	Mamoer		- D	1.1		
	7A	A red purse				
	7B	.A red pair of gloves				
	70	Both gloves and purse are red	0	1	0	0
	7D	Purse on an arm, gloves in a hand				
	8A	A boy				
	₿B	A boy looking in an attic				
	\$C	A boy looking for clothes				
	8D	A boy with a hat				
	9A	A person mailing a letter				
	9B	Pent Anni Anni	0	0	0	0
	9C	Min-dy Option Review				
	9D	A person phoning.				
	10A	A park with trees				
	10B	A park with people sitting down				
	10C	Old people sitting down				
	10D	A water fountain in a park with people	1		0	0
	11A	Two people talking	0	0	****	
	11B	THE DOOPLE COMMUNICATION				
	11C	puly down strill				
	11D	She found a table				
	12A	A little girl				
	12B	Under shirts in a closet				
	120	A dress	0	0	0	0
	12D	A clean closet				
		To people				
	13A 13B	A man hanging his coat up				
		To men talking together				
	130	TO WELL OCCUPATION OF STATES	0	0	0	0
	13D	A person out a restaurant				
	14A	Two people sitting down				
	14B	A man calling for a menu	0	0	0	1
	14C	A man looking at the menu				
	14D	A man picking out a poster.				
	15A	The seller showing him it.				
	15B	The man bying it.				
	15C	The man taling it.	0	0	-	***
	15D		0	0	-	4/9
	16	quigi auni PHB	0	0	0	0
	17	ESS OLD PING	0	0	0	0
	18	Enter in the house	1	0	-	42-10
	19	Cleaning kitchen	0	0	1	1
	20	That is Mr. Brown	1	1	0	0
	21	t bottle of milk	1	0	0	1
	22	A bottle of milk	0	0	0	0
	23	and a property	0	0	0	0
	24	Cleaning a closet	0	0	0	0
	25	and tim time				



Student Number	Picture Number	Student response		Cod M		
÷.	26 27 28 29 30	An eyelash on a face A girl looking out the window.	0 0 0 0	0	0 0 0 0	0 0 0 0
A2 - 12	1A 1B 1C 1D 2A 2B	What a nice Birthday Cake I think I'll light the candles Oh no you don't Okay daddy What is in the paper today Will you quit looking over my shoulder	1	0	1	1
	2C 2D 3A 3B	Look at the sports section Can I read it now I'm going in their Will you take this for me	1	1	1	1
	3C 3D	Get in that line Know she won't have anyone to talk to	1	1	0	0
	4A 4B 4C	Oh I forgot something The door won't open Hello Aunt Belly	0		0	0
	4D	do you want to take the elevator up to the apartment				
	5A 5B	This hat is nice And so is this coat				
	5C 5D 6A	do you want these shoes Know I am a dad Hello Marge	1	1	1	0
	6B 6C 6D 7A	Hello Don Come in Come in Marge & Don Heres your purse	1	0		-
	7B 7C	Heres your gloves You purse goes on your arm	1	1	0	1
	7D 8A 8B 8C	The gloves go on your hands This is a nice attic I wonder what's in this chest What are you doing	0	818	0	0
	8D 9A 9B 9C 9D	Looking for a hat I wonder if I should Know not that Yes I might. I think I will	1	0	0	0
	10A 10B 10C 10D	What a park Its a beatiful veiw What a lot of old folk What a beatiful fountain	0	••	0	0



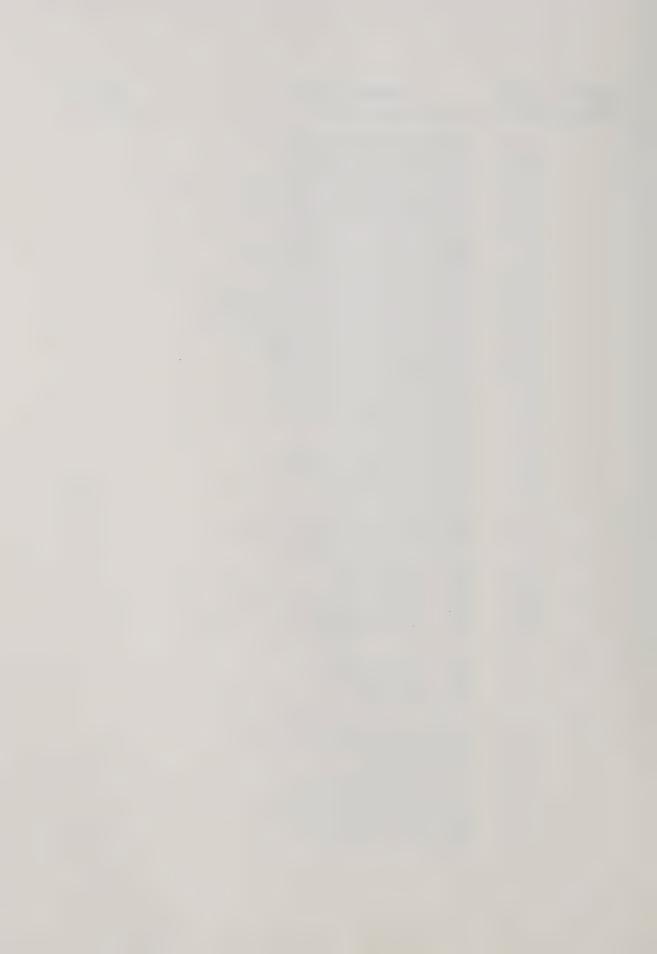
Student Number	Picture Number	Student response		Cod M		
·	11A 11B 11C 11D 12A 12B	Bonjour Madame Would you like a table You can take that one See he's going. give them to me What is this landry doing here	1	1	0.9	-
	120 12D 13A 13B 130	Who's is this Put your stuff in the drawer Hi can I speak to Peter I'll put my coat here hi Peter	1.	1	0	0
	13D 14A	Just like little kids I'd like to go there	1	0	0	1
	14B 14C 14D 15A 15B	have a seat waiter come here Roast Beef for me How much is it 85 cents	1	1	0	0
	150 15D 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	Here keep the change This will be a good presnt Operator please This is a man His birthday Come in please Time to wash the dishes Sorry I have to go Let's get some Breach Can I have some milk Clean this up will you Who drew this This is a woman Ouch that hurt. Look outside dear My picture was taken 2 days till Christmas	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0 0 1 1 1 1 1 1 1 1 1	- 0 0 - 1 0 0 1 1 0 0 0 0 0	0 - 0



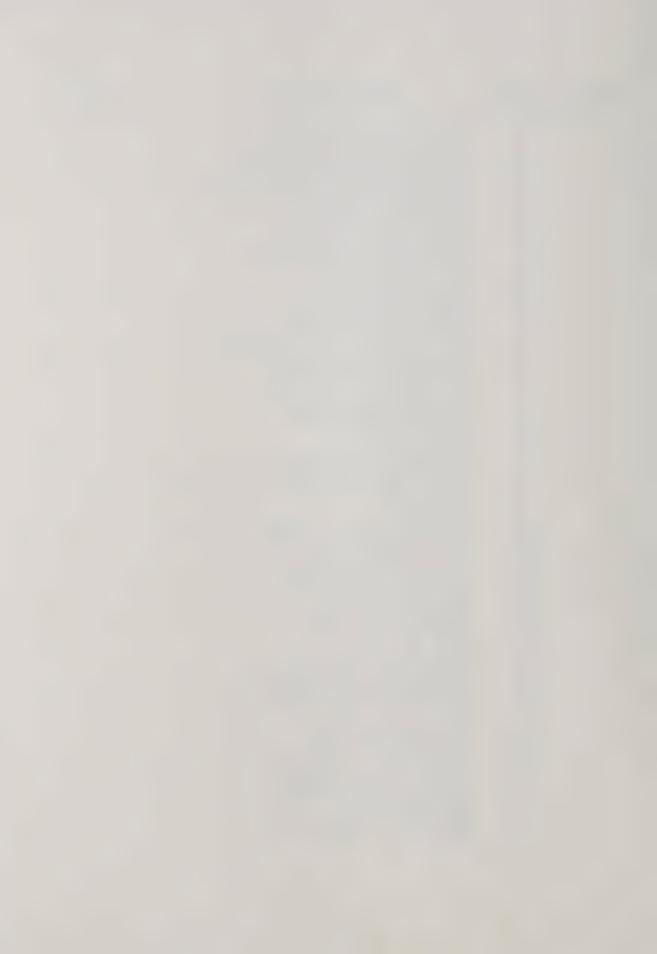
Student Number	Picture Number	Student Response			ing T	
B2 - 1	1A 1B 1C 1D	I made these cake. I am going to light the candels. What not yet. Now don't blow them yet.	1	0	1	1
	2A 2B	What does the paper say. What I will tell you.				
	2C	There is the pape it is talking about sports.			-	
	2D 3A 3B 3C	Leat me readet. There is the telegraphy telephones. Here go and bring these in those. Where in there.	1	1	1	1.
	3D 4A	How are those people. Miss Jane is coming home.	1	0	0	0
	4B 4C	She cand get the door open. Yes what do you whont.	1	0108	1	0
,	4D 5A 5B	Where did you come the elevator. He put on his hat. It is a little too big. Here are your shoes kid.				
	5C 5D 6A	How do I look boys. Hi how are you Miss Smith.	1	0	1	1
	6B 6C 6D 7A	How are yor toes. May I please come in. Will you please come in. Here is your purse.	1	0	cos	and .
	7B 7C	I think this are your gloves. She got her purse on her arm.	0	0	0	1
	7D 8A 8B 8C 8D	I am putting on my gloves. What are you doing here. What are you looking for. What are you doing kid. I found my new hat.	0		0	0
	9A 9B 9C 9D	She mailed the letter. I wounder what she put on the letter. I need a six sence stamp. She made a phone call.	1	1	1	0
	10A 10B 10C 10D 11A 11B 11C	They whent to the park. They whent for a walk They are resting theirself. The people are looking at the nice water. Yes may I help you dolly. There is a table for you. Right at the cornor. Good bi ladys and gentlemen.	1	-0	0 -	0 -



Student Number	Picture Number	Student Response		Cod:	-	
	12A 12B 12C 12D 13A 13B	Put them in the closet. Put them in a nice pile. Where do we put this. In the same place that you put the others. hi nice to meat you mr. smith. I am henging up my coat.	1	1	1	0
	13C 13D 14A	hellow sir how are you. What are you kids doing here. There his is sitting down.	1	1	0	1
	14B 14C 14D 15A 15B	They are sitting down. Woud you please bring me a note. did you find anything that you like. Could I please see the peacture. She is a vary good picture.	1	1	1	1
	150 15D 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	How much does it coast. Thank you sior very mach. Are you calling some one. Are you drawing a face. What is the date. Wont you please come in. Cleaning up the chicken. Were are you going. There is the Mr. Smith. There is the milk. Will you please close the clouset. There is a nice picture. He only has one eye. Oh I cut my self. There is alot of people outside. Are you Mr. Jonkson. The pages are coming off the calender.	1111111111011		100000000000000000000000000000000000000	- 0 0 0 1 0 0 0 1 1 0 0 0 0 0
B2 - 2	1A 1B 1C 1D	blow out the candels. this is for you. watch the cake. oh! No! reading the sports section.	1	0	0	0
	2A 2B 2C 2D 3A 3B 3C	hold it sir have you read this. look at this. let me see this. I have to go in hear. would you mail this for me. look at all the people.		1		
	3D	we're last in line.		7	T	ala



Student	Picture	Student Response		Cod	ing	
Number	Number		S	M	T	C
	4A 4B 4C 4D 5A 5B	Miss leaving her apartment. Miss unloaking her apartment. Caretaker asking her if she can get in. Miss asking who that other lady is. This hat is to big. This coat is to big.	1	2008	1	0
	50 5D 6A 6B	Here are some shoes. Every thing is to big on me. How do you do Miss.	1	1	0	0
	6C 6D 7A	How do you do. Won't you come in. Won't you both come in. Hold this please.	1	0		one
	7B 7C 7D	Miss giving her mite to a little girl. Thank you for holding it. Miss putting on her gloves.	1	0	0	0
	8A 8B 8C	Boy going down stairs. Girl going threw a chest. father watching her.	0	2010	0	0
	8D 9A 9B 9C 9D	I found a Hat. Miss maling invatations. I must right invelations to the wedding. I must by some stamps. I'll phone	1	0	1	0
	10A 10B 10C 10D 11A 11B 11C	People at the Zoo looking threw a cage. People waking in the zoo. Old age people sitting on a bench. A fountain in the park. What would you like Miss. A table for one Sir. Right over there Miss. He is gust leaving.	0	-0	0 -	0 -
	12A 12B 12C 12D 13A	bring them over here. Here are the under shirts. Where should this go Mom? I'll put them right here. How do you do Miss.	1	1	1	0
	13B 13C 13D 14A	I'll hang up my coat. Hi Hary! how are you? Do you have any children. There she is over there.	1	1	0	1
	14B 14C 14D	Right here Miss. Wayter can we have a menu. What did you want.	1	1	1	1



Student Number	Picture Number	Student Response		Cod:	-		anggaring
	15A 15B 15C 15D 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	How much is this magasene. It is eighty-five cents. I'll takt it! please. Than you very much Mr. phoning in an elevator. drawing with chach beginning of summer come in please. mother doing the dishes Sorry I've got to go now. there's the groceria. there is the milk. here are some blakets. this is me. sketching a face. shaving (a man) looking out a coirido. two men discusing something filing in an office.	1 0 0 0 1 1 1 1 1 0 0 0	1 0 0 0 0 0 0 0 0 0 0 0 0 0			
B2 - 3	1A 1B 1C 1D 2A 2B	I,ll light them. no it's not time why isn't it time Look a journal program. I'm goining would you	1	0	1	1	
	2C 2D 3A 3B	look what it says The building right here. take in there. get in line with those people	0	0	0	0	
	30 3D	she's making new friends already.	1	1	0	0	
	4A 4B 4C 4D 5A	wrong apartment. the key won't work can you help me whats she over there for I'm a priest I'm rich now	0	849	0	0	
	5B 5C 5D 6A	Here's some old shoes what. do I look intelligent. How do you I'm Mr. Smith	1	0	1	1	
	6B 6C 6D	hello, oh you must be mr. Smith come in, thankyou you may see him now.	1	0	-		



Student Number	Picture Number	Student Response		Cod M	ing T	
						~
	7A	here's your purse				
	7B	and your gloves	7	٦	0	7
	7C 7D	I'll put my purse on my arm	1	.L	U	7
	8A	and put my gloves on to. What an old dusty attic	0	419	0	0
	8B	I found a trunk I'll see whats in it.	Ŭ			
	8C	he's going into the old trunk				
	8D	fathers old hat				
	9A	I wonder if I should write				
	9B	no I better not.	1	0	1	0
	90	the stamps, I don't have any				
	9D	I'll phone them				
	10A	they went into the park				
	10B	It's a big park				
	100	they sat on the bench resting the fountain was beautiful	7	_	0	0
	10D	Mrs. Smith went into a French restaurant	0	0		
	11A 11B	a table for she asked yes				
	110	there's one with a man it's the only one				
	11D	look he's leaving.				
	12A	put them in your closet				
	12B	be side your tops				
	12C	here is another thing oh	1	0	0	0
	12D	put it at the bottom to	,			
	13A	how do you do I'm here to see your husban	d			
	13B	I'll hang up my jacket.				
	13C	Mr. Smith waved to him.	1	0	0	1
	13D	I though you had two children	مله			ula
	14A	there is a table				
	14B	let's sit down the man wanted the menu.	0	0	1	0
	14C	I wonder what we should order.				
	14D	can I see that				
	15A	I'll buy it				
	15B 15C	85ϕ said the man				
	15D	thank you very much.	1	1		0-0
	16	Mr. Smith's change didn't come back.	0	0	7	
	17	He is making a face.	0	0	1	0
	18	It is my first oh no.	1	0	~	
	19	Would you please come in.	0	0	0	0
	20	Mrs. smith pictured herself washing	1	1	0	
	21	Oh I hope I'm not to early.	ī	0	0	0
	22	Look at the lo There is only a quart of milk left	1	0	0	0
	23	Oh look the points comming off.	1	0	0	0
	24	Thats a funny picture of me.	1	0	0	0
	25	Illaud a Lumy Part				



Student Number	Picture Number	Student Response		Cod M	-	
	26 27 28 29 30	that boy looks like a girl I cut myself shaving Look at the snow outside. I wonder what foor it's at To much work to do my calander full.	1 0 1 1 1	1	0 0 0 0	0 0 0 1
B2 - 4	1A 1B 1C 1D 2A 2B	their not lite May I light them? No No you must not do that. Now their all lite up. May I see the Sports page, please Wait I am not finished yet.	1	1	1	1
	20 2D 3A 3B 30	Don't read over my shoulder. Here, now I am finished. You mail it here. Go mail it now hurry Look at that line up.	1			0
	3D 4A	Go stand in Line. I had better hurry or I will be late.	1.	0	0	1
	4B 4C 4D	Oh I have to close the door first Hello are you ready to go? There's the elevator	0		0	0
	5A 5B	Oh at hat! A coat too. Oh am I ever lucky.				
	5C 5D 6A	Here's a pair of shoes too. How marvulous do I look now? Hello is Mr. Smith there	1	0	1	1
	6B 6C 6D 7A	Hello I am Mrs. Smith there No I am sorry she sin't Oh I see you found her won't you come in Take your hand bag with you.	1	0	A-10	-
	7B 7C	Here are your gloves don't forget them They match perfectly.	1	1	0	0
	7D	T better put them on first.	0		0	0
	8A 8B 8C 8D	I wonder where I can find it? Maybe in here. Son what are you doing Looking for this hat.				
	9A 9B 9C 9D 10A	I had better write them a letter. I wonder if they are married? Oh I need some stamps I think I'll phone them instead Go for a walk in the park What a beatiful place it is.	1	1	0	0
	10B 10C 10D	I am getting tired. Let's look at the fountain.	0	passi	0	0



Student Number	Picture Number	Student response		Cod M	_	
	llA llB llC	I would like a table Where would you like to sit? There is a table over there.	1	0	* 2000	
	11D 12A 12B 12C 12D 13A 13B	Oh he is going to leave now. Put thoseaway. They belong right here. Where does this go? It belongs there also. Hello I would like to Mr. Smith May I hang up my coat?	1.	1	1.	0
	13C 13D 14A	Hi Mr. Smith Where are the children? There they are	1	1	0	1
	14B 14C 14D	May I sit down May I have some nenus please. What will we order. May I see that magazine	1	1	1	1
	15A 15B 15C 15D 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	May I see that magazine. There you go. I'll take it please. Thank you sir. Calling the operator Drawing a face. What is the date? Come in please. I better wash the counter. Have you seen Johnny? There's the butcher at the door. Jug of Milk Close the cupboard please, dear. I like that one best Making her eyes. Ouch it hurts Please can I go out? The elevator is up. The days sure have flown.	1 0 0 1 1 1 1 0 0 1 1 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 - 1 0 0 0 0 1 0 0 0	0 -
B2 - 5	1A 1B 1C 1D 2A 2B	I should light the candes I guess Ill start Stope, you might burn yourself Why did it daddy Hey bud is that the sports page Yeh and is it good	1	0	1	1
	20 2D	Look at this page Hey mack can I have this	1	1	1	1



Student Number	Picture Number	Student Response		Cod:	_	
	3A	Is this where you mail				
	3B	Will you take this in there				
	3C	You just wait in line	_			_
	3D	I hope she does it	1	1	0	1
	4A	I guess I should close the door	0		0	0
	4B	Locking the door	0	***************************************	0	0
	4C	Oh look who is coming				
	4D	Is she the new wonder				
	5A	Neat hat				
	5B	Neat jacket Beautiful shoes				
	5C 5D	I look just great	1	1	1	1
	6A	Hello, how are you	-40	2.700		
	6B	Hello, and how are you				
	6C	Won't you come in	1	0	***	
	6D	Welcome, come on in				
	7A	Here is your purse				
	7B	Here are your gloves				
	7C	Maybe I should put them on	1	1	0	0
	7D	Yes I think I will			_	
	8A	Boy are there lots of things up hear	0		0	0
	8B	I wonder whats in this trunk				
	80	What's he doing in there				
	8D	Hey dad I found a hat				
	9A	I'll have to mail a letter	1	0	1	0
	9B	I might wright it wrong	٠		٠,	
	90	Ill need stamps				
	9D	Ill phone instead				
	10A	Look at the high fences				
	10B	Is this a nice spot				
	100	Nice park benches	0	4470	0	0
	10D	Nice pool May I have a table	1	0	****	-
	11A 11B	You want a table just for 1 person				
	11C	There's one right there				
	11D	Oh now you may sit				
	12A	May I have those				
	12B	Put them right there	٦	1	7	Ω
	120	What about this	7	7	الد	U
	12D	Put it there				
	13A	Hello				
	13B	I hang up my coat				
	130	Hello boss	1	0	0	0
	13D	I wonder who that is				
	14A	Ill go to the resteraunt				
	14B	Oh this is a nice table	1	1	1	1
	14C	Waitress, may I have a menu I don't know what to eat				
	14D	I dou. f know where go one				



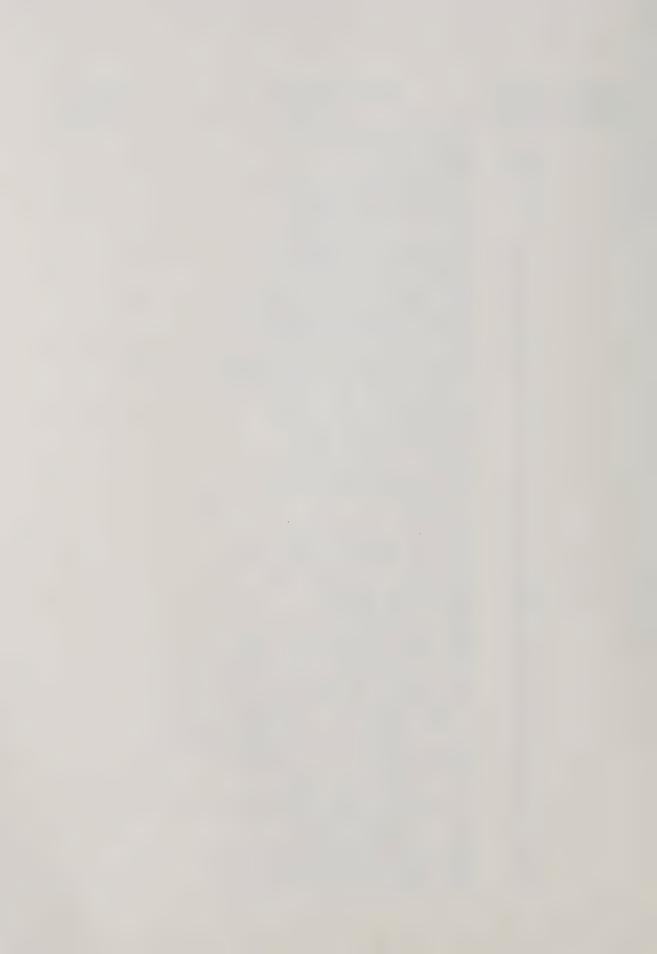
Student Number	Picture Number	Student response	S		ding T	
	15A 15B 15C 15D 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	Ill take that 85 cents please Hear you are Thanyou sir Dillalling a telephone number Draw a face 1st day of May "Come in, please" "I should clean the kitchen" "Sorry, I have to go" "There's the butcher Mom" "There's a milk bottle" See what is in the closet There is an army man His eyes will be closed Shaveing isn't hard Look outside Were you in jail? 2 days	1 0 0 0 1 1 1 1 1 1 1 0 1	1 0 0 0 0 1 1 0 0 1 0 0 1 0 0 0	- 1 0 - 1 0 0 0 0 0 0 0 0	0 - 1 0 0 0 1 0 0
B2 - 6	1A 1B 1C 1D 2A 2B	Can I light the candles I've got the matches No you may not I won't to light them Did you see the sport Section	1	0	0	0
	20 2D 3A 3B	Look Tom. Let me see. Lets go into the Post office. It's over there.	1	1	1	1
	3C 3D 4A	I'll line up there. We'll have to wait quite long. I think I forgot something.	1	1	1	1
	4B 4C 4D 5A 5B	I better check in case it is something I need Oh hello Mrs. Jones Do you no I forgot my change purse at home, and had to go back It fits good. The coats way to big.	0	000	0	0
	5C 5D 6A	I don't like to shoes. Every looks so funny on me. Hello Mrs. Brown.	1	1	0	1
	6B 6C 6D	Hello Mr. Brown. Won't you come in. John will be home soon.	1	0		одино



Student Number	Picture Number	Student Response	S		ing T	
BOTTOMORPHICAL CONTRACTOR	Bulletiner old (v.n. a., vega yngenous sengor agor sy					
	7A 7B 7C	Here's your purse Lyan. Don't forget your gloves. Im almost ready.	1	1	0	0
	7D	I'll just put my gloves on.				
	8A 8B 8C 8D 9A	Does the Attic ever look weird This box s sure is dusty Johnny what are you doing. Look at the hat I've found Dad. I'll have to mail my letter.	0	***	0	0
	9B 9C 9D 10A 10B	Maybe now I should write a letter I'll have to buy more stamps I think I'll phone instead. The zoo looks very beautiful. The park also looks good		0	1	0
	100	The older people have a good time in the				
	10D 11A 11B 11C 11D 12A	I think I like the park the best. Hello Miss. I would like a table for one. There is one there Miss. The man is leaving now. Diane put the blankets away.	_	1	0 -	0 -
	12B 12C 12D 13A 13B	Here put them by the under shirts. What about this here. You put it also with the blankets. Hello Sir. I'll put my coat here.	1	1	1	0
	13C 13D 14A	Hi John. Where are the children. Look Bill lets sit there.	1	1	0	1
	14B 14C 14D 15A 15B	What would you like. Waiter bring me a menu. I think I'll have just one minute. I'll have this book here. It's eighty-five cents.	1	1	1	1
	150 15D 16 17 18 19 20 21 22 23 24	Here you go. It looks like a intersting book. Hello operator. She's drawing It's May again. Welcome home. Time to wash the dishes again. Its been nice seeing you. There's Father. Here's the milk Please close the door. This one is mine.	1 1 1 1 1 1 1 1	0 1 0 1 0 1 1 0 0	- 1 0 - 1 0 0 0	- 0 0 - 0 1 0 1



Student Number	Picture Number	Student Response	S		ing T	
	26 27 28 29 30	Do you like my drawing. Ouch! There's Treasa. What floor are you going to. My appointments today.	1		0 0 0 0	
B2 - 7	lA lB lC lD	That's a very nice cake. Can I light the candles? No it's not time yet. But it is time	1	1	1.	1
	2A 2B 2C 2D 3A	What sport are you reading about I'm not reading any sport Here you can read it if you want Thanks very much, sir. I have to go to the post office.	1	0	0	0
	3B 3C 3D 4A	Would you come with me to deliver this? Oh no! look at the crowd! We'll be there for hours! I think I will go out	1	1	1	1
	4B 4C 4D 5A	I better lock the door. Hello, are you going out too? There is the new tennant I'm going to dress up in these old clothes.				
	5B 5C 5D 6A	This is a real old coat. What are my shoes doing here? How do I look to you like this? Oh! Hello. I'm Mrs. Jones.	1	0	1	1
	6B 6C 6D 7A	And I'm her husband. I'm glad to meet you Mrs. Smith. Well, why dont you come in. Mrs. Smith is handed her bag.	1	0	anna	-
	7B 7C	And her gloves are given to her. She puts her bag on her arm.	0	0	0	1
	7D 8A 8B 8C	And fixes on her gloves to go out. Johnny climbs up to the attic. He starts skrownging around in old trunk His dad begins to wonder what he's doing.	1	-	1	0
	8D 9A 9B 9C 9D	Finally he finds an old cap. Shall I write them a letter. No, I don't think I will I havent any stamps and today's Sunday. Yes, I thonk I'll phone. It's a great day for the park.	1	0	1	0
	10A 10B 10C 10D	There are many people in the park. Most people are just relaxing The fountaing atracts many people	1	019	1	0



Student Number	Picture Number	Student Response		Cod M		
	11A 11B 11C 11D	Hello man how are you? Would you like a table? How about that one over there. That man is just leaving.	1	1		-
	12A 12B 12C 12D 13A 13B	Thank you for bringing it. Put them write here meatly. What shall I do with this? Put it right here. Hello Jane how are you? I'll hang up my coat.	1	1	1	0
	13C 13D 14A	Hi Goerge everything alright Where are your two kids Ah, here's a good restraunt.	1	1	0	1
	14B 14C 14D 15A 15B	Alright sit down everyone Miss could we have a menu. They have some good things I'll have that magazine please. Yes but it is eighty-five cents	1	1	1].
	150 150 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	Oh I dont mind, here eighty five. My wife likes the reports. Hello, Op John draws a face on the board. I can't wait to spring. Hello, come on in. I have to clean the kitchen. I've lost the key to the apartment! There's a meat store. Here's the milk in the closet Close the door for me. This is my picture. John is drawing on the board. Mr. Smith is singing while he shaves. It's very cold out today. Was that you on the elevator? She is taking a holiday	1 1 1 1 1 1 1 1 1 0 1 1 1 0 0	0 1 0 1 0 0 1 0 0 1 0 0	- 1 0 0 0 0 0 1 0 0 0	- 0 0 - 1 0 0 0 0 0 0
B2 - 8	1A 1B 1C 1D 2A 2B	What a lovely cake I'll light the candles No you might burn yourself Everyone sing happy birthday. My what an interesing journal You should have seen the game	1	0	1	1
	2C 2D	Look its on this page May I look at that	1	1	1	1



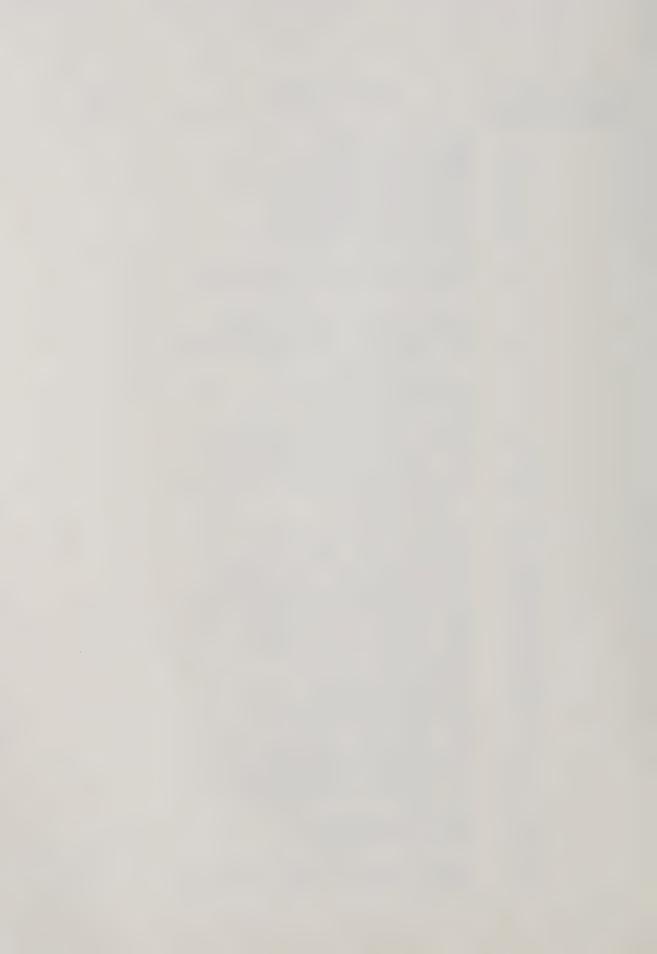
Student Number	Picture Number	Student Response			ing T	
	3A	Here is the post office				
	3B	You take it and get it wieghed				
	3C	You stand in that line				
	3D	She found a friend	1	1	0	0
	4A	Oh the door it's locked				
	4B	I'll use my key to open it	0	0100	0	0
	4C	Good afternoon to you				
	4D	Would you like to take a walk				
	5A	Oh here is a hat I can wear				
	5B	What a lovely coat				
	5C	do I have to wear those shoes				
	5D	Aren't I hadsome now.	1	1	1	1
	6A	How do you do				
	6B	Yes she is here				
	6C	Would you like to come in	1	0	***	perm
	6D	come right on in.				
	7£	Here is your purse				
	7B	You had better take your gloves	_			_
	70	Wear your purse on your arm.	1	0	1	1
	7D	Put on your gloves too				^
	8A	look at all this stuff.	0	040	0	0
	83	here is some old clothing				
	80	he had better be carefull				
	8D	look at this silly old hat				
	94	I had better mail this	7	_	7	^
	9B	Write to mom & dad.	1	U	1	0
	9C	I need some stamps				
	9D	Maybe I'll phone them instead				
	lOA	What a lovely park				
	10B	There are so many trees				
	100	Old people rest here too	7		٦	0
	10D	They rest by this lovely fountain	1		1	0
	llA	Where would you like to sit?	1	0	8016	
	11B	A small table for one				
	110	Where that man is he is leaving soon				
	11D	Now you may sit there				
	12A	Put them in here.				
	12B	Right beside these	7	3	ר	0
	12C	Where does this go.	Т	7	1	U
	12D	Where did you put them				
	13A	Good morning sir won't you come in				
	1.3B	Should I hang up my coat?				
	13C	Hi There good to see you	0	7	0	0
	13D	GUO HART GIAD	O		9	



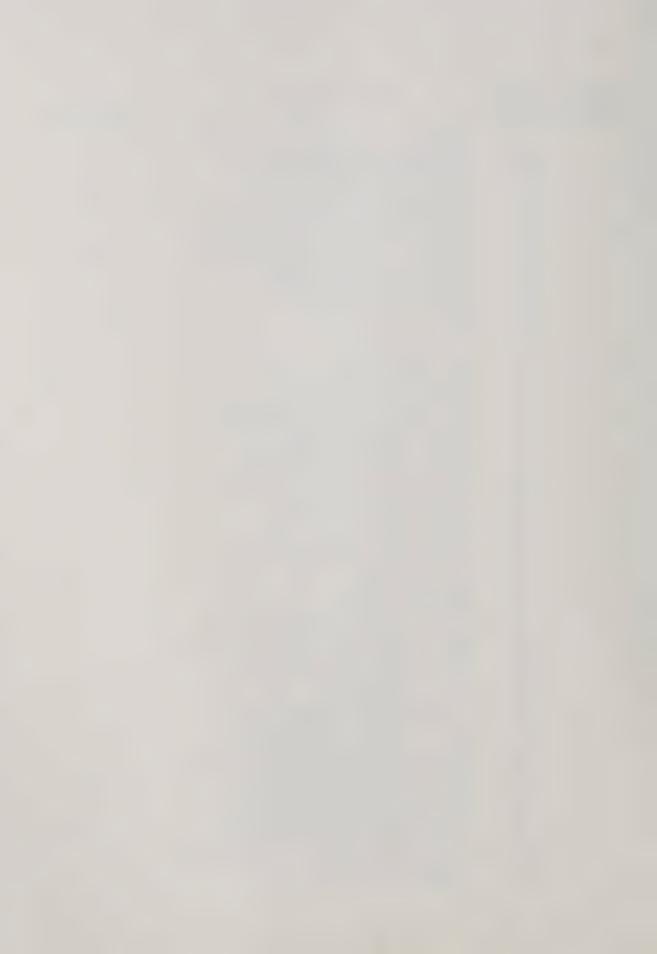
Student Number	Picture Number	Student Response	S		din T	
	14A 14B 14C 14D 15A 15B	lets eat over there sit down at this table May we have a menu Miss What should we have I would like that magazine You mean this one here	1	1	1	1
	150 15D 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	how much is it. It Looks interesting. Draw a picture please Please do come in. Do the dishes now I don't like it. Look theres the butcher Get the milk please Put them in here this is my picture A tired person I can't keep my eyes open It's very nice outside Oh! through there	1001001110001100	0 0 0 0 0 0 0 1 1 0 0 -	- 1 0 - 1 0 0 0 0 0 0 0	
B2 - 9	1A 1B 1C 1D	Susan is helping getting the party ready I'll light the candles Carefull not to burn yourself Now blow out the candles	1	0	1	1
	2A 2B 2G 2D 3A	What's happening in sports Oh hi harry there's a lot in the sports page to-day here you can have the papper I have to go mail this parcel will you come with me to the post office?	1	0	1	0
	3B 3C 3D 4A	There is quite a long line up It will take a while to mail this Miss Brown must go shopping	1	1	1.	1
	4B 4C 4D 5A 5B	she forgot her wallet and will have to go back for it Mrs. Smith is going out also Miss Brown asked Mrs. Smith if she was going grocery shopping here's dad's old hat and his coat too	1		1	0
	50 5D	here you might as well wear my shoes John looks funny in his dad's old clothes	0	0	0	1



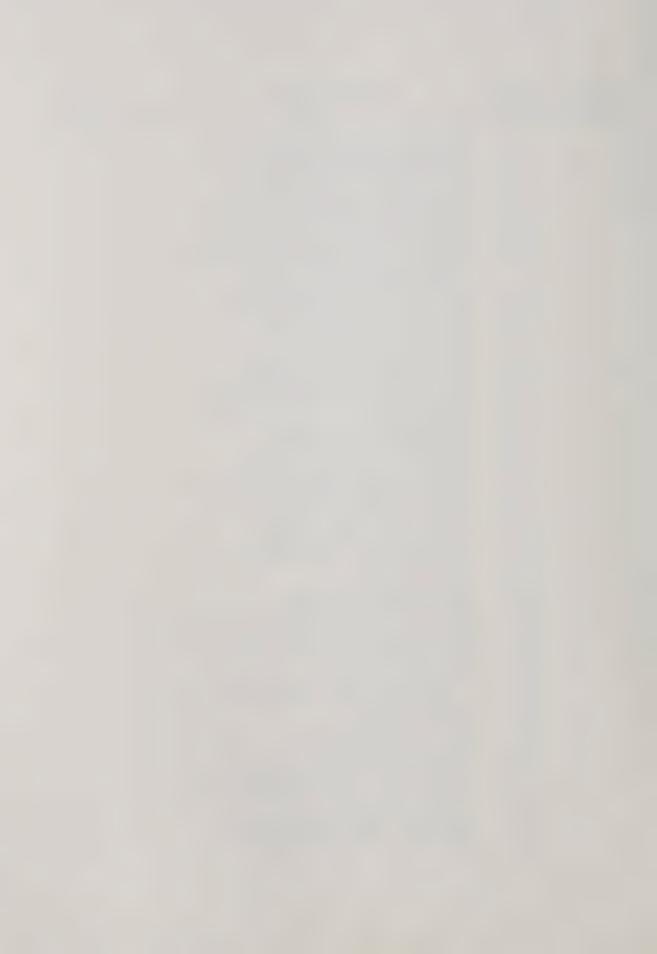
Student	Picture	Student Response		Cod	ing	
Number	Number		S	M	T	C
	6A 6B 6C 6D 7A	Hello I Mrs. Smith Hello I'm Mr. Smith My wife and I just moved in next door please come in both of you Here is your purse Jane	1	0	ana	en di
	7B 7C	and here are your gloves hang on to your purse and don't lose it	1	0	0	1
	7D 8A	and make sure you put your new gloves on This is the first time Tim has been in the attic	e 1	porte	1	1
	8B 8C 8D	He sees the old trunk of clothes His fathers sees him looking in the trunk Tim finds a very old hat of his fathers a long time ago				
	9A 9B 9C 9D	I should send a letter to my sister She just got married I don't have any stamps though Maybe I could phone her instead	1	0	0	0
	10A 10B 10C	Let's take a walk through the park It is beautiful this time of year A lot of old people sit on the benches admiring the view				
	10D 11A 11B 11C 11D 12A	I think the fountain is the lovliest Welcome to our restaurant Would you like a table for one there will be one over there soon See the gentleman is just leaving Be careful you don't drop the sheets	0	1	0 -	0 -
	12B 12C 12D 13A 13B	put them right there pleas What should I do with the curtains Just put them on the shelf Hello, please come in I'll hang up my coat	1	1	1	0
	13C 13D 14A	Hi Larry, how are you Where are the children Lets go to that restaurant	1	1	0	1
	14B 14C 14D 15A 15B	This table looks fine Oh miss may we have a menu What would you like to order I would like a calendar please This one?	1	1	1	1
	150 15D 16 17	Fine. How much is it? Thank you very much Johnny's drawing a picture of his father	1 0 0	_		- 0



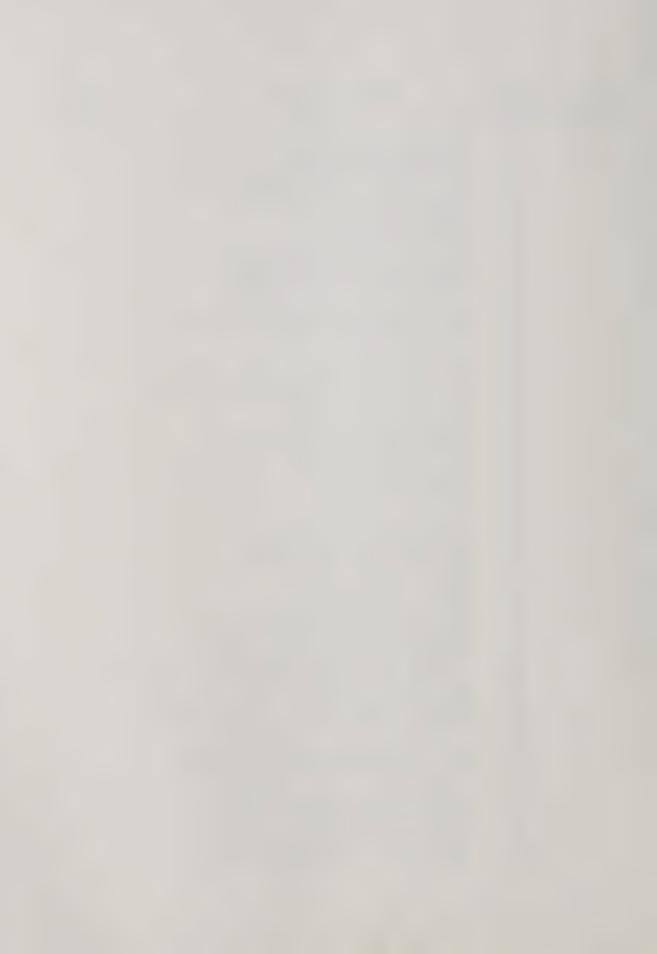
Student Number	Picture Number	Student Response	S	Cod	ling T	
	18 19 20 21 22 23 24 25 26 27 28 29 30	The lily is the flower of the month Welcome aboard flight nine I should clean up the kitchen I'm sorry I'm late but Mr. Smith thinks the day is lovely There is only one bottle of milk left Susan will hang up her clothes Tom sees a picture of him as a baby The boy is getting sleepy Father shaves every morning It looks cold outside time goes quickly	1 1 1 0 1 0 0 1 1 1 0 0 1	1 0 1 1 0 0 0 0 0 1 -	0 - 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 - 1 0 0 0 0 0 0 0 0 0
B2 10	1A 1B 1C 1D 2A	The candles aren't lit yet. Heres a box of matches. Don't light the match toward you Now I can blow and the candles Is that the sports page?	1	0	0	0
	2B 2C 2D 3A 3B	Sorry I bought the last paper I'll show you some pictures Thank you for letting me see it. There is the post office. I have to mail this parcel.	1	0	1	0
	3C - 3D	Look at that long line up. It will take hours for my turn.	1	1	1	1
	4A 4B 4C 4D 5A 5B	I have to lock the door. Its locked now. Hello Mrs. Laden. I have to catch the elevator. Heres an old hat for me. Now I've got a big coat to go with it.	0	-	0	0
	50 5D 6A	You can where these old shoes. I must look funny. Hello I'm pleased meet you.	1	1	1	1
	6B 6C 6D 7A	I'm also glad to meet you to. We came to look at the house. Come in. I hope you will like it. I have an old purse that you can use.	1	0		-
	7B 7C	Here are some gloves to match it. I'll put the purse on my arm.	1	1	0	1
	7D 8A 8B 8C 8D	These gloves fit me perfectly. I wonder what I can find yp here? Here is an old pair of Dads pants. I wonder what he has my pants out for? I found your old hat, Dad.	0	****	0	0



Student	Picture	Student Response			ing	
Number	Number		S	<u>M</u>	T	C
	9A 9B	Should I mail my letter? I should write one to Mum & Dad.				
	9C	The stamps will cost 25¢				
	. 9D	It would be cheaper to phone.				
	10A	This is the park near our house.				
	1.0B	It has many paths.				
	100	A lot of elderly people go there.				
	10D	There is even a little pond where the boys float boats.	1	***	0	0
	llA	We are almost all filled up.	1	0	and .	***
	11B	Would you like a table for one?				
	11C	That man is ready to leave.				
	11D	You may sit there now.				
	lzA	Put the towels in the cupboard.				
	. 12B	There is room beside these.				
	12C	Where should I put the curtains	1	1	1	0
	12D	They can go beside the undershirts				
	1.3A	Hello nurse.				
	1.3B	I'll just hang my coat up.				
	13C	Hello Dr. Campbell.				
	1.3D	Where are your two children?	1	1	0	1
	14A	There is a restaurant we can go to.				
	14B	Here is a table where we can sit.				
	14C	Could you give us a menu?	1	1	1	1
	14D	I don't know what to order				
	1.5A	I'd like to buy that magazine.				
	15B	This costs 85¢				
	15C	Here is enough money.				
	15D	This looks pretty good.	1	0		414
	16	He has the wrong number.	0	0		-
	17	Bill is drawing a picture of his brother.	0		1	0
	18	April showers bring May flowers.	1	1	0	0
	19	Hello How are you.	1	0	~	~
	20	I can see myself as a grown lady.	T	1	0	0
	21	I don't know where to go first.	1	1	0	0
	22	Theres a bakery.	1	0	0	0
	23	Is that milk sour?	1	0	0	0
	24	Close the cupboard door.	1	1	1	0
	25	This is my brother.	1	0	0	0
	26	This is a boy that is sleeping.	0	1	0	0
	27	I just cut my cheek with the razor.	0	-	0	0
	28	Tt. looks cold out.	1	1	0	1
	29	Are you an elevator operator?	1	1	0	0
	30	Only 2 days till Christmas	1	1	0	1



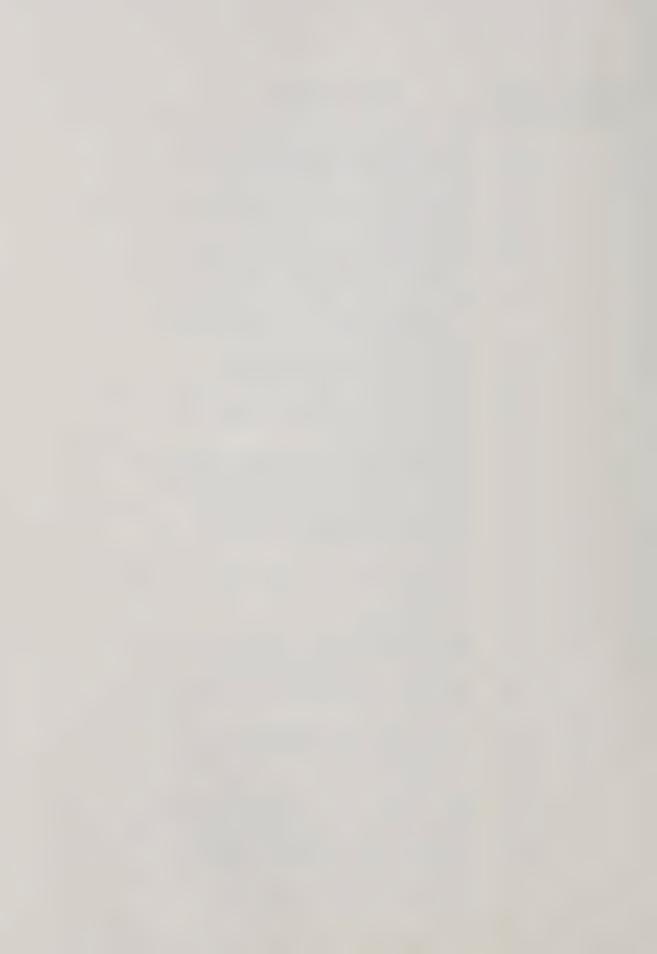
Student Number	Picture Number	Student Response		Cod M	ing T	
B2 - 11	1A 1B 1C 1D 2A	It's a lovely birthday cake. I'll light the candles. No, I'll do it. You'll burn yourself. Well, it's my birthday cake. Hello, Buddy.		0	1	1
	2B 2C 2D 3A 3B	Well, look at this. Oh, let me have the paper. Let me see the sports page, too. I have to go mail this package. Will you wait for me while I go.	1	1.	0	1
	3C 3D	I can't go in, right now. There's my mother talking to Mrs. Amy.	1	1	0	0
	4A 4B 4C 4D 5A 5B	I've got to hurry. I'll just take time to lock up. Oh, there's Caroll. I've got to run, my elevator is leaving. I am going to be daddy. And here's his old coat.	0	ests	0	0
	5C 5D 6A	You can play with these old shoes. Now, I am really a man! I'm pleased to meet you, Mrs. Jones.	1	1.	1	0
	6B 6C 6D 7A	And you, Mr. Jones Won't you come in. I'm so glad you have come. Here's your purse, Suzie.	1	0	•••	cra
	7B 7C	And don't forget your gloves. Now, what have I forgotten.	1	0	0	0
	7D 8A 8B 8C 8D	There, now I'm ready. What a treasure chest. Hats and shirts ang everything. What, are you going, Jim. Looking through my treasure chest.	0	0-0	0	0
	9A 9B 9C 9D 10A 10B 10C	I wonder if I mailed that letter. I can't even remember writing it. Did I put on postage? Maybe, I should telephone I am coming. I love the Park. It's kept in such beautiful condition. All the elderly people love to come &	1	0	1	0
	10D 11A 11B 11C 11D	sit here. It's no wonder, it's so lovely. Welcome to our restruant, Madame. Is it a table for one? Our only one is taken, I'm sorry. Oh, but look, the gentleman is leaving.		1	0 -	0 -



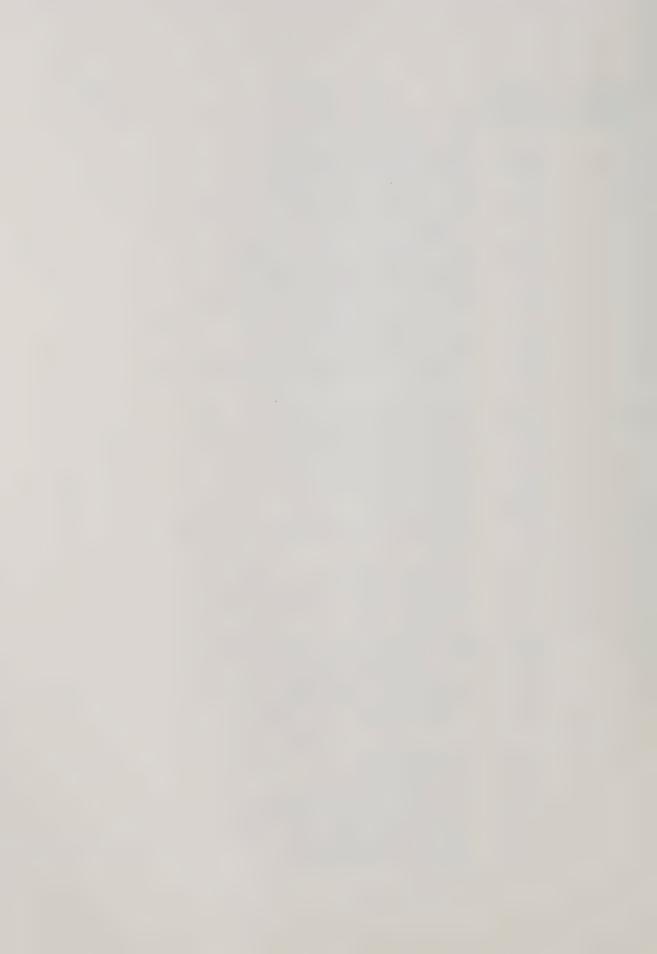
Student Number	Picture Number	Student Response		Cod M		
	12A	You put those right there, for now.				
	12B	But they must be put away, later.				
	12C	And, where can I put my dresses	1	1	1	0
	12D	See everything can go in the big	_L,	٠	.l.,	V
	, , , , , , , , , , , , , , , , , , , ,	cupboard.				
	13A	Please, come in, Mr. Smith.				
	1.3B	I'll just hang my coat here.				
	130	Hi, Bob, How's everything going?				_
	1.3D	And where are your children.	1.	1	0	1
	14A	I think I'll eat here.				
	14B	We can sit here.	7	7	7	7
	14C	May we have a menu, waitress.	1	T	1	1
	14D	I think I'll have a steak, with fried potatoes.				
	15A	What's that magazine?				
	15B	It's our newest one out.				
	150	I think I; ll take it. How much is it?				
	15D	I'll like it but my wife won't.	1	0	61-10	tions,
	16	Get me the police!	1		***	evela
	17	Now, this is the way you draw faces.	1	1	1	0
	18	The first of the month brings flowers.	1	1	0	1
	19	Hello, is the doctor in.	1	0		Code
	20	I really should be home doing the dishes.	1	1	0	0
	21	I am sorry I am late. But, it couldn't				
		be helped.	1	1	0	0
	22	There's Mr. Apples fruit shop.	1	0	0	0
	23	Bring me some milk, please.	1	1	1	1
	24	I'll help you make the beds, Mother.	1	0	0	0
	25	This is my picture.	1	0	0	0
	26	And this is a drowsy fellow.	1	1	0	0
	27	I am so sleepy in the morning.	0	1	0	0
	28	I can hardly wait to get outside.	Т	٠١٠	U	U
	29	Does this elevator take you to the 14th	1	1	0	0
		floor?		1		
	30	This month is flying by so fast.	-3-0	Ang		
B2 - 12	1A	Hmm, I think I'll light my candles.	-	_	^	0
D~ L~	1B	T'11 just use these matches.	1	0	0	0
	1C	Here, let me do that, you shouldn't				
		touch matches.				
	1D	No, No, I did it myself.				
	2A	You, reading the sports section:				
	2B	Yes, but buy your own paper.				
	20	Tt's a really great article, though.	1	7	1	7
	2D	Here just let me see it.	Τ.	1.	Jo	uka



	Picture	Student Response		Cod	0	a
Number	Number		5	M	T	<u> </u>
	3A	I'll show you how to mail your parcel.				
	3B	Here, we'll take it in there.				
	3C	Just go into one of those lines and mail				
		it.				
	3D	I wonder if I should have gone with her?	1	1	0	0
	4A	Mrs. Brians leaves her house to go				
		shopping.				
	4.B	She carefully locks the door behing her.	1	200	1	0
	4C	Just as she is leaving Miss Lyons comes				
		out.				
	4D	They seperate as they come out of the				
		elevator, as they are going different				
		directions.				
	5A	This hat would be just perfect!				
	5B	And this coat is just the thing.				
	5C	Here, these shoes go with the costume.	1	0	1	1.
	5D	There, how do I look?	ala.	O	٦.	با
	6A	Hello, Mrs. Bruce wer'e expecting you.				
	6B	Hello, Mr. Bruce.	1	0	1000	0.0
	60	Is the dentist ready yet?				
	6D	Yes come right in he is ready for you now	•			
	7A	Here's a purse, it has matching gloves.				
	7B	Yes here they are I hope they fit. They go quite nicely with my coat.	1	1	0	0
	7C	And yes, the gloves fit very well.				
	7D	The old clothes should be somewhere down				
	SA		0	***	0	1
	dn	here. Yes, here's the trunk, and these are perf	ect.	j		
	8B	pants.				
	80	Hey Bill what are you doing down here in				
	Ó()	my old nants				
	8D	Just fooling around, I'll put them all				
	שפט	back but can I keep the nat:				
	9A	T wonder if T should write Marge.				
	9B	But then I don't think she'll write me	_			^
	710	hack.	1	0	1	0
	90	And she never puts enough stamps on.				
	9D	T think maybe I'll phone ner.				
	10A	Let's go into the park to look at the				
	1,011	ccenery.				
	10B	ita all heautiful and green.				
	1.00	a 1 : La good to git back and rest awith	7		0	0
	10D	- a livious Terring V Livious G	St. Trans.	7		-
	11A	Tallo how many are in the party, Just J	JUL	1.		
	11B	TABLE 1 TO A TABLE IV VULLDOLL .				
	110	There's one over there and I will the	211			
	20.20	ic just leaving.				
	11D	There we can seat you over there.				



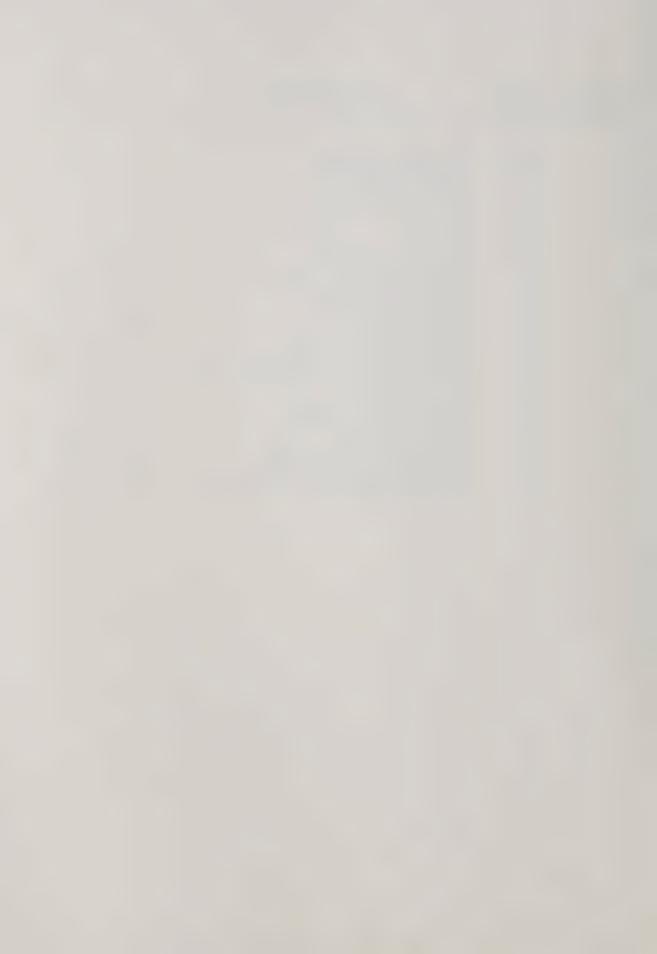
Student	Picture Number	Student Response		Cod: M	-	
Number	Namoer		0	7.7		
	12A 12B 12C 12D 13A	Pile the sheets down here. Put them beside these. Where should I put this dress? It can go down here too. Hello, Mary. So nice of you to ask me	1	1	1	0
	13B 13C 13D 14A 14B	over. I can only stay awhile though. Hello George, how have you been? Where's little Lucy and Fred? Let's go over there to eat. Here is a nice place but we'll have to	1	1	0	1
	14C 14D 15A	get another setting. Menu please, Miss. I wonder what we should have. I'd like to buy that magazine how much is it?	1	1	1	1
	15B	Claire? Why it's 85 cents.				
	150 150 16 17 18 19 20 21	Thank you I'll buy it. I don't know why Martha wants this. Hello, is this 475.7560? Billy draws a face on the board. I was born on May 1st. Come in please. I worked so hard today! Could you help me? Is this the Brick Apt.?	1 1 0 1 1 1 1	1	0 - 0	
	22 · 23 24	Theres the bakery. Is that all the milk we have left? Bring the other sheets, they're in the	1 1 1.	0 0	0 0	0
	25 26 27 28 29 30	closet. This is a picture of me, playing. Bill is drawing a tired lady on the board Mr. Smith is shaving. Look is that Mrs. Smith? Is this floor number 7? I must remember the party.	1.0	0 0 - 0	0 0 1 0 0	0 0 1 0
B2 - 13	1B 1C 1D 2A 2B	I sode light the candles. I think I will don't dow that sasau I'll light thom is there any sports pehture wate a numut, there one today	1.		1	
	2C 2D	Its at the stadam how mush is the amution	1	0	0	0



Student	Picture	Student Response		Coding			
Number	Number		S	14	T	C	
	3A	semi your telgages there					
	3B ·	post this for me					
	3C	wate in line there					
	3D	its a long line	1	1	0	1	
	4A	bogy meldel	, da	-/	0	.1.	
	4B	600 end onle	0	come	0	0	
	4C	ent and true				Ü	
	4D	gind arms origi					
	5Λ	dess up like dady hs hat					
	5B	his coat					
	5C	take thes to shoe maker					
	5D	Ill do it later	1	1	1	0	
	6A	hello Miss wondow					
	6B	hello who are you,					
	6C	Name and durine	0	0			
	6D	your married! come in.					
	7A	you can play ther this					
	7B	and the gloves					
	7C	you look good when thenr	1	1	0	0	
	7D	put your gloves on					
	8A	Im tired of riding my bike	0		0	0	
	8B	I wond to do comething down					
	8C	hey get out of those					
	&D	I ohmly wand your hat to play their					
	9A	guidy transit comb		_		^	
	9B	Your drup have	0	0	0	0	
	90 .	girls done prints					
	9D	and only finish					
	10A	a day in the park					
	10B	grap and lifts					
	100	qual una preli	0		\circ	0	
	10D	It wosed like this wene we where yony	0	7	0	O	
	11A	good afternoon welcome to cafe	_L	Τ		040	
	11B	would you like this table					
	110	I would give you that one but has you					
		can see					
	111	o well you may have it know					
	12A	give thom to me					
	12B	put them right ther	7	0	0	0	
	120	please help me flod this up	J-4				
	12D	we'll put it hear					
	13A	go moning					
	13B	may I hang my coat up					
	130	hi joe	1	1	0	1	
	13D	wear are the kids					



Student	Picture	Student Response	Coding
Number	Number		S M T C
	14A 14B 14C 14D 15A 15B 15C 15D 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	trels lets sit hear walter come hear we do'dt have a menu how mush is that magacen 85¢ cents Ill take it thankyou trying to get operartor fishing a pictuce flowers blomm in may come on pleace wishing she was grow up I don't no what to wear lets go get so food aross the steet hove some milk You wear your pink bols that's the one i made draw the eye lass I got to get a new razzer thers dady aross the steet thenking of going to football game I havend seen	1 1 0 0 0 1 0 1 0 0 0 0 0 0 0 0 0 0



APPENDIX D

Homogeneity of Variance Tables



HOMOGENEITY OF VARIANCE TESTS

Variable	CHISQ . will are an another than the control of th	Probability
Semantic Categories of Style		
Isolation	1.580	.208
Context	1.647	.199
Syntactic Categories of Style		
Isolation	5.236	.072
Context	1.700	.427
Semantic Categories of Modality		
Isolation	5.732	.125
Context	8.821	.031.
Syntactic Categories of Modality		
Tsolation	5.707	.126
Context	7.869	.048
Semantic Categories of Relations		
Isolation	5.112	.023
Context	1.358	.243
Syntactic Categories of Relations		
Isolation	9.142	.027
Context	3.593	•308
Syntactic Categories of L1 and L2		
Isolation	1.554	.212
Context	.025	.872
Complexity		
Tsolation	2.340	.310
Context	1.062	.587
Ideo-graphemic and Non-ideographemic	₩ ¥ · · · -	
pictures	.008	.925
Isolation	1.419	.233
Context		









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